

Occupational Health and Safety Baseline risk assessment template											
Project/Dept:	Unit 1 PAH tubes Installation						Next Review Date (every 2 years):		Template identifier:		
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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	RCE Risk Control Effectiveness	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	Consequence	Likelihood				
Cutting of metal on the plant	Exposure to dust(ash)	Lung infection that could result with silicosis, eye infection, nasal infection, skin infection	Health	Chronic condition that could result in silicosis if exposed to ash.	Planned plant maintenance programme to minimize excessive dust leaks; Provision of PPE, toolbox talk, Medical surveillance programme,	4	2	■	P	Contractor	PTW system OHSAct
Expansion	Exposure to noise	Noise induced hearing loss	Health	Noise induced hearing loss	Custom made as well as disposable hearing protections are provided.	4	2	■	P	Contractor	OHSAct
Cutting the tubes	Expose to sparks	Burn	Health	Respiratory infections. Resulting with flue like conditions.	Provision of PPE, toolbox talk, Medical surveillance programme,	4	2	■	P	Contractor	PTW system OHSAct
	Exposure to insufficient illumination	Trips and falls that will result in serious injuries.	Health	Trips and falls that will result in serious injuries.	Planned plant maintenance programme is available.	4	2	■	P	Contractor	OHSAct
	Exposure to heat	Heat stress : dehydration, heat cramps, heat exhaustion and heat stroke.	Health	Heat stress : dehydration, heat cramps, heat exhaustion and heat stroke.	Employees are provided with suitable personal protective equipment. Employees spend short periods on the plant	4	2	■	P	Contractor	OHSAct
Exposure to heights/elevated positions	Exposure to insufficient hooking facility when working at height.	Multiple injuries and/or fatalities	Safety	Multiple injuries and/or fatalities	Improvise by hooking up on the scaffold. Employees trained on Life Saving Rules. Pre-job briefing is carried out.	5	2	■	P	Contractor	OHSAct; Life saving rules
Manual lifting of plates and equipment	Exposure to falling of plates	Multiple injuries and/or fatalities	Safety	Multiple injuries and/or fatalities	Provision of PPE (boots and gloves); Employees carry plates for very short distances. Risk assessment is carried out.	6	2	■	P	Contractor	OHSAct
Mechanical lifting of tubes and plates and equipment using winches	Exposure to falling of plates	Multiple injuries and/or fatalities	Safety	Multiple injuries and/or fatalities	Toolbox talk; Task risk assessment is carried out; crane is inspected using a checklist; The employee who operates a crane has a competence certificate; The lifting equipment is load tested.	6	2	■	P	Contractor	OHSAct
	Exposure to sparks that can burn employees	Serious injuries on the body.	Safety	Serious bodily injuries	PPE provided include aprons, skullcaps, boots and fire resistant overalls amongst others.	3	3	■	P	Contractor	OHSAct
	Exposure to welding fumes	Respiratory infection with flue like symptoms	Health	Respiratory infection with flue like symptoms	Welding is carried out in a well ventilated environment. Employees are provided with visors.	3	3	■	P	Contractor	OHSAct
	Exposure to ultra violet rays.	Eye infection that could result in arc eye then cataract.	Safety	Eye infection that could result in arc eye then cataract.	Provision of visor with protection for exposure to UV Rays. Screens to protect those people in the area.	4	2	■	P	Contractor	OHSAct
	Exposure to noise	Loss of hearing	Health	Noise induced hearing loss. This can start by threshold shift, followed by tinnitus and ultimately NHL.	Correct hearing protection which include custom made type is provided. Medical surveillance is carried out to screen employees accordingly.	4	2	■	P	Contractor	OHSAct
	Exposure to defective electrical welding equipment	Electrocution that could result to serious injuries	Safety	Serious bodily injuries because of electrocution.	All electrical equipment are inspected before use. Welding equipment is not used in damp environment. The wet surfaces are drained off before any welding is undertaken.	5	2	■	P	Contractor	OHSAct
	Heavy lifting. Manual handling of material (physical ergonomics) when welding is carried out.	Musculoskeletal disorder : Muscle sprains and strains resulting in back pains and/or shoulder pains.	Health	Musculoskeletal disorder : Muscle sprains and strains resulting in back pains and/or shoulder pains.	Use of trolleys or cranes for heavy plates/sheets. Employees trained and competent to use the lifting equipment.	4	2	■	P	Contractor	OHSAct
	Exposure to ash dust	Lung infection, eye infection, skin allergies, nasal infection, skin infection	Health	Lung infection, eye infection, skin allergies, nasal infection, skin infection	Daily cleaning and washing of plant PPE/dust masks, goggles, overall, gloves. Work team sessions. Tool box talks.	4	1	■	P	Contractor	OHSAct
Grinding and cutting using angle grinder	Exposure to sparks	Serious injuries on the body.	Safety	Serious bodily injuries	Guards are provided on the grinder. PPE provided include aprons, skullcaps, goggles, boots and fire resistant overalls amongst others.	2	2	■	P	Contractor	OHSAct
	Exposure to noise	Loss of hearing	Health	Noise induced hearing loss. This can start by threshold shift, followed by tinnitus and ultimately NHL.	Correct hearing protection which include custom made type is provided. Medical surveillance is carried out to screen employees accordingly.	4	2	■	P	Contractor	OHSAct
	Exposure to sharp edges on paper	Finger cuts	Safety	Finger cuts	Awareness on paper handling	2	2	■	F	Contractor	OHS Act
Driving, Transport employees	Unfavourable road conditions	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Safety	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training.	6	3	■	P	Contractor	Road traffic act, OHS Act. Vehicle Safety 240-69946
	Exposure to night time driving	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Safety	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training.	6	2	■	P	Contractor	Road traffic act, OHS Act. Vehicle Safety 240-69947
	Exposure to unfavourable weather conditions due to Mist/Fog/heavy rain	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Safety	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training.	6	2	■	P	Contractor	Road traffic act, OHS Act. Vehicle Safety 240-69948
	Exposure to potholes on the road.	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Safety	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training.	6	3	■	P	Contractor	Road traffic act, OHS Act. Vehicle Safety 240-69949
	Unfit road users, pedestrians, stray animals	Collision that result in accidents with multiple injuries and/or fatalities.	Safety	Collision that result in accidents with multiple injuries and/or fatalities.	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training.	6	3	■	P	Contractor	Road traffic act, OHS Act. Vehicle Safety 240-69950