

Occupational Health and Safety Baseline risk assessment template											
Project/Dept.:	Coal Plant										Next Review Date:
Date:							€				
Refer to Occupational Health and Safety Risk assessment procedure 32-520											
1: List activity	4: Assess & Analyse Risks										
List activity (When applicable)	Hazard Identification	Associated risk (Risk identification)	Risk type	Exposure patterns	Cause(s) of the risk	Conditions(Routine/Non-routine)	What are the Consequences?	Existing Controls	First determine Cons	Risk Priority Rating	RCE Risk Control Effectiveness
List specific activities to be performed taking into consideration the equipment to be used, the personnel involved in the task.	A hazard is anything that is likely to lead to an event that will have an adverse impact on achieving an objective. A hazard can pose more than one risk.	A physical event occurs or could occur in relation to the hazard	Safety or health	The frequency and duration the person/group is exposed to the hazard e.g. Daily for 3 hrs.	What causes the risk to come into effect?	No. Yes if routine and No if non-routine. These short-term changes to conditions that could not be reasonably anticipated e.g. Emergency	What is the expected adverse impact on the objective?	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)	Consequence Likelihood	Risk Priority Rating	RCE Risk Control Effectiveness
For Lethabo Power Station Ash conveyor WA16 head station repairs	Exposure to Suspended material	Falling object-Injuries	Safety	8 hours as and when necessary (breakdown)	Falling of suspended material/objects	No	Falling object-Injuries	Engineering: Guarding/barriers/rails. Administrative: Load testing of slings and rigging equipment, equipment inspection. Person job specifications, training, task risk assessment. PPE: Full PPE.	4 3	II.	F
For Lethabo Power Station Ash conveyor WA16 head station repairs	Exposure to Noise	NIHL	Health	8 hours as and when necessary (breakdown)	Exposure to excessive noise	No	NIHL	Engineering: Mandatory Signs. Administrative: Hearing conservation training, task risk assessments, Medical Surveillance. PPE:HPD.	4 3	II.	F
For Lethabo Power Station Ash conveyor WA16 head station repairs	Exposure to Coal Dust	Lung disease	Health	8 hours as and when necessary (breakdown)	Inhalation of coal dust	No	Lung Disease	Engineering: Dust suppression system. Administrative: Task Risk assessment. Dust mask, regular cleaning. Medical Surveillance. Person job specifications, training, task risk assessment. PPE: Full PPE.	4 3	II.	F
For Lethabo Power Station Ash conveyor WA16 head station repairs	Uneven floor surfaces	Tripping and falling	Safety	8 hours as and when necessary (breakdown)	Uneven floor surfaces	No	Injuries	Engineering: Use of lifting equipment where possible. Administrative: Use Buddy System, task risk assessment. Toolbox talk, reporting of any unsafe conditions.	4 3	II.	F
For Lethabo Power Station Ash conveyor WA16 head station repairs	Manual handling	Falling when handling	Safety	Daily 3hrs	Slipping out of hands	Yes	Injuries	Engineering: Use lifting Equipment where possible. Administrative: Use Buddy System, task risk assessment. Toolbox talk, Gloves/PPE: Applicable PPE	4 3	II.	F
For Lethabo Power Station Ash conveyor WA16 head station repairs	Suspended loads	Falling load	Safety	8 hours as and when necessary (breakdown)	Falling of suspended material/objects	No	Fatality	Engineering: Guarding/barriers/rails. Administrative: Safe work methods, task risk assessment. Use of competent persons, Being careful when using these tools, PTW, PPE: Full PPE.	4 3	II.	F
For Lethabo Power Station Ash conveyor WA16 head station repairs	Incorrect use of Sharp tools - splicing and cutting belts - tools used have sharp blades and edges.	Cut/wounds/lacerations	Safety	8hours as and when necessary (breakdown)	Incorrect use of Sharp tools - splicing and cutting belts -	Yes	Cut/wounds/lacerations	Engineering: Guarding/barriers/rails. Administrative: Safe work methods, task risk assessment. Use of competent persons, Being careful when using these tools, PTW, PPE: Full PPE.	4 3	II.	F
For Lethabo Power Station Ash conveyor WA16 head station repairs	Working at heights	Falling from heights -	Safety	8 hours as and when necessary (breakdown)	Working at heights	Yes	Falling from heights -	Engineering: Guarding/barriers/rails. Administrative: Training/awareness, medical surveillance, task risk assessment, Local safe work procedures. PPE: Full PPE (Respiratory protection).	5 3	II.	F
For Lethabo Power Station Ash conveyor WA16 head station repairs	Toxic gas / coal dust	Inhalation of gases/dust	Health	6 hours in a month	Inhalation of coal dust/toxic gases	Yes	Lung Disease	Administrative: Training/awareness, medical surveillance, task risk assessment, Local safe work procedures. PPE: Full PPE (Respiratory protection).	4 3	II.	F
For Lethabo Power Station Ash conveyor WA16 head station repairs	Incorrect manual lifting - and material handling	Back trauma	Health	6 hours in a month	Incorrect manual lifting - and material handling	Yes	Back trauma	Administrative: Use buddy system to manually lift, make use of lifting equipment where possible. Education and awareness, person job specifications, training, task risk assessment. PPE: Full PPE.	4 3	II.	F
For Lethabo Power Station Ash conveyor WA16 head station repairs	Working at heights	Falling from heights	Safety	8 hours as and when necessary (breakdown)	Working at heights	No	Fatality	Engineering: Approved scaffolding, guarding barriers, rails. Administrative: Training/awareness, medical surveillance, task risk assessment, PTW. Local safe work procedures. PPE: Full PPE (Respiratory protection).	5 3	II.	F
For Lethabo Power Station Ash conveyor WA16 head station repairs	Toxic gases from welding, cutting, grinding, heating bolts.	Inhalation - irritation / asphyxiation.	Health	8 hours as and when necessary (breakdown)	Inhalation of Toxic gases from welding, cutting, grinding, heating bolts.	No	Lung Disease	Administrative: Training/awareness, medical surveillance, task risk assessment, PTW, Local safe work procedures. PPE: Full PPE (Respiratory protection).	4 3	II.	F
For Lethabo Power Station Ash conveyor WA16 head station repairs	Ultra violet rays from welding.	Arc eyes	Health	8 hours as and when necessary (breakdown)	Exposure to Ultra violet rays from welding.	No	Arc eyes	Administrative: Task Risk Assessment, training/awareness. PPE: Full PPE (Eye protection).	4 3	II.	F
For Lethabo Power Station Ash conveyor WA16 head station repairs	Noise from cutting and grinding	NIHL	Health	8 hours in 1 months	Exposure to Noise from cutting and grinding	Yes	NIHL	Administrative: Zoned noise areas, training/awareness, PTW, Task risk assessment, local safe work procedures. PPE: Full PPE.	4 3	II.	F
For Lethabo Power Station Ash conveyor WA16 head station repairs	Toxic gases from welding, cutting, grinding, heating bolts.	Inhalation - irritation / asphyxiation.	Health	8 hours as and when necessary (breakdown)	Inhalation of Toxic gases from welding, cutting, grinding, heating bolts.	No	Lung Disease	Engineering: Ventilation/extraction. Administrative: Training/awareness, medical surveillance, task risk assessment, PTW, Local safe work procedures. PPE: Full PPE (Respiratory protection).	4 3	II.	F
For Lethabo Power Station Ash conveyor WA16 head station repairs	Heat from welding, cutting, grinding	Body Burns	Safety	8 hours as and when necessary (breakdown)	Exposure to heat when welding, cutting & grinding	No	Body Burns	Administrative: PTW, local safe work procedures, task risk assessment. PPE: Full PPE.	4 3	II.	F
Night time travelling	Lack of rest	MVA-Injuries	Safety	2hrsDaily	Lack of rest	Yes	MVA-Injuries	Administrative: Compliance to rest period, Eskom driving assessment. Driver not to drive when feeling exhausted; Use of transport services provider.	4 3	II.	F
Night time travelling	Stray on the road	MVA-Injuries/Property Damage	Safety	2hrsDaily	Stray on the road	Yes	MVA-Injuries/Property Damage	Engineering: Proper vehicle light, Road Worthiness. Administrative: Road worthy vehicle-Vehicle Inspection. (Lights working) Training. Driver permit, awareness. Travelling Risk Assessment.	4 3	II.	F
Travelling	Bad road conditions	MVA - Injuries	Safety	2hrsDaily	Driving in the Bad road	Yes	MVA - Injuries	Administrative: Training, travelling on relevant roads.	4 3	II.	F
Travelling	Speeding	MVA - Injuries	Safety	2hrsDaily	Driving at high speed	Yes	MVA - Injuries	Administrative: Training, travelling on relevant roads.	4 3	II.	P
Travelling	Rural/dangerous roads	High jacking	Safety	2hrsDaily	Rural/dangerous roads	Yes	High jacking	Administrative: Training, travelling on relevant roads.	4 3	II.	P
Walking to and from site	Uneven road/floor	Trip and fall - injury	Safety	8hrs Daily	Uneven road/floor	Yes	Trip and fall - injury	Administrative: Training on relevant roads.	4 3	II.	P
Walking to and from site	Slippery road/floor	Slip and fall - injury	Safety	8hrs Daily	Slippery road/floor	Yes	Slip and fall - injury	Administrative: Training on relevant roads.	4 3	II.	P
Walking to and from site	Open manholes	Falling in-injuries	Safety	8hrs Daily	Open manholes	Yes	Falling in-injuries	Administrative: Inspections, training on relevant roads.	4 3	II.	P
Driving	Distraction while driving	MVA - Injuries	Safety	2hrsDaily	Distraction while driving	Yes	MVA - Injuries	Engineering: Bluetooth device installed. Installation of vehicle cameras systems. Administrative: training/awareness. Task risk assessment. The driver to focus on the road and avoid distractions.	4 3	II.	P