Hazard Identification and Risk Assessment (HIRA)

Project/Dept:	Demolish existing bundwalls and Construct removable bundwalls	Scope of Risk Assessment:	Demolish existing bundwalls and Construct removable bundwalls		Next Review Date:	30-Aug-21
Date:	2021/03/13	Prepared by:	N Shezi	Accountable Manager:	Thandi Semosa	

Risk Assessment Matrix

Consequences	A	B	C	D	E
6	III	II	II	I	I
5	III	III	II	II	I
4	IV	III	III	II	II
3	IV	IV	III	III	II
2	IV	IV	IV	III	III
1	IV	IV	IV	IV	III

Likelihood

1: Identify Hazards			2: Identify Risks					3: Analyse Risks							4: Evaluate Risk						5: Treat Risks									
Hazard nr	Status	Hazard Identification	Risk Nr	Risk Owner	Associated risk	Abnormal Conditions	Cause(s) of the risk	What are the Consequences?	Existing Controls		First determine Consequence and then the Likelihood of that Consequence.			Risk Priority Rating	Additional Controls or Tasks Aimed at improving Existing Controls	First determine Consequence and then the Likelihood of that Consequence.			Risk Priority Rating	Monitoring Mechanisms	Control Owner	Control Risks	Legal and Other Requirements	Initial Target Date	Revised Target Date	Current Status	Independent Verification (i.e. Confirmation that the objectives have been met)		Comments
#	Active / Closed / Draft	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.	#	Who is accountable for making sure the controls and monitors are: - in place, - implemented, - regularly reviewed for effectiveness.	A physical event occurs in relation to the hazard	Indicate Yes or No. These short-term changes to conditions that could not be reasonably anticipated.	What causes the risk to come into effect?	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)	RCE Risk Control Effectiveness	Health & Safety Consequence	Likelihood			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)	Health & Safety Consequence	Likelihood			How we know if we are succeeding. Include comments on effectiveness. This may include Health Risk Assessments where necessary.	Person allocated the responsibility for implementing the agreed controls	What additional Risks are presented by the chosen control. If significant, these will also require a formal Risk Assessment.	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	Used if, for any reason, a Target Date is revised. Use the Comments field to explain.	Pending, In Progress, Complete	Date Done:	By whom:	
1		Cable trences		HV Plant Manager	Slip, trip and falls	No	Cable trenches left open	3	Ensuring that all cable trences are closed or barricaded. PPE, Training	F	3	D		ii						No incidents or a reduction in incidents reported	Site Owner		Occupational Health & Safety act, Eskom safe working policies and procedures						
2		Electrical		Site Owner	Electrical contact, Injury or property damage	No	Normal working conditions	3	Implementation of the lock out system. PPE, Training	F	3	B		iii						No incidents or a reduction in incidents reported	Site Owner		Occupational Health & Safety act, Eskom safe working policies and procedures						
3		Security Break In, Theft or Shooting		Security Manager	Injury/death/property damage	No	Unemployment	2	Full time Competent Security Guards 24 hours a day 07 days a week ON SITE. Ensuring Substation's gates and doors are closed after a days work	F	2	B		IV						No incidents or a reduction in incidents reported	Security Manager		Criminal Procedure Act, Psira Act, Eskom protection of assets policies and procedures						
4		Falling objects		Site Manager	Injury/death	No	Poor housekeeping / non adherance to safety signs	3	Good house keeping. Training, Barricading, Contractor audits	F	3	C		II						No incidents or a reduction in incidents reported	Site owner		Occupational Health & Safety act, Eskom safe working policies and procedures						
5		Working on elevated positions		Site Manager	Falling from heights. Injury/death/property damage	No	Working on elevated positions	4	Fall Protection Plan, Training, PPE, Medical surveilence	F	1	B		IV						No incidents or a reduction in incidents reported	Security Manager		Firearm controls Act, Criminal Procedure Act, Eskom's firearm control procedures						
6		Fire		HV Plant manager	Injury/death/property damage	No	Open fires not attended to. Smoking in undesignated smoking areas	4	Emergency Preparedness Plan. Evacuation Plan. Permits. Storage control, no open fires on site. Smoking on designated smoking areas	P	4	B		iii						No incidents or a reduction in incidents reported	Site owner		Occupational Health & Safety act, Eskom safe working policies and procedures						
7		Environmental pollution		Site Manager, HV Plant Manager	Environmental pollution	No	Poor environmental management	2	Environmental management Programme, Contractor audits and site checks	F	2	C		III						No incidents or a reduction in incidents reported	Site owner		Environmenal act, Eskom Environmental policies and procedures						
8		Ergonomics		Site Manager	Injury/death	No	Employee position in relation to work activity	2	Training	P	2	B		IV						No incidents or a reduction in incidents reported	Site owner		Occupational Health & Safety act, Eskom safe working policies and procedures						
9		Vehicle Driving		Site Manager	Injury/death/property damage	No	SHEQ rules not adhered to	2	Competent drivers and operators, adhere to speed limit, vehicle pre-trip inspections and regular service intervals Take regular rest breaks	P	2	B		IV						No incidents or a reduction in incidents reported	Site owner		Occupational Health & Safety act, Eskom safe working policies and procedures						
10		Use of Hand Tools		Site Manager	Injury	No	Poor housekeeping	2	Proper Housekeeping, Training, PPE, Pre checks	F	2	D		II						No incidents or a reduction in incidents reported	Site owner		Occupational Health & Safety act, Eskom safe working policies and procedures						
11		Working at heights		Site Manager	Injuries and fatalities	No	Work at elevated positions	3	Fall Protection Plan, Training, PPE (Fall arrest systems)	P	3	C		II															
12		Demolition work		Site Manager	Injuries	No	Demolition work	3	Safe Work methods, Signage, Risk assessment, Training, PPE	F	3	C		II															
13		Hazards from nature		Site Manager	Insects bites, bee stings, snake bites	No	Working under the lines	2	Competent operator, Earthing of Equipment, Training,	F	2	C		III															