

Occupational Health and Safety Project Baseline Risk Assessment																														
Project/Dept:		Asset Management Project Execution (North East Grid) Site - Hendrina Substation								Scope of Risk Assessment:		Hendrina 132kV Protection Upgrade Project (Stringing & Cabling works)				Next Review Date:		Unique Identifier												
Date:		18 Aug 16			Prepared by: David Pheasane		David Pheasane Safety Advisor			Authorised by:		Chris Mhaga		Signed: Chris Mhaga 27 July 2017				Revision:		0		Apr 19								
Refer to Occupational Health and Safety Risk Assessment Procedure 32-520																														
1: List activity		2: Hazard identification			3: Risk identification								4: Assess & Analyse Risks						4: Evaluate Risk				5: Reduce & Eliminate Risk							
List activity		Hazard #	Hazard Identification	Risk #	Exposed group/employees	Risk Owner	Exposure patterns	Associated risk	Risk type	Conditions(Normal/Ab normal)	Cause(s) of the risk	What are the Consequences ?	Existing Controls	First determine Consequence and then the Likelihood of that Consequence.		Additional Controls or Tasks Aimed at improving Existing Controls		First determine Consequence and then the Likelihood of that Consequence.		Monitoring Mechanisms		Control Owner	Legal and Other Requirements	Initial Target Date	Revised Target Date	Current Status	Independent Verification (i.e. Confirmation that the objectives have been met)		Comments	
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.	#	Who is exposed to the hazard (i.e. Employees, visitors, members of the public, etc.	Who is accountable for making sure the controls and monitors are in place, implemented, regularly reviewed for effectiveness.	The frequency and duration the person/group is exposed to the hazard e.g. Daily for 3 hrs.	A physical event occurs in relation to the hazard	Safety or health	Indicate Yes or No. These statements changes to conditions that could not be reasonably anticipated e.g. Emergencies	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 - Residual Controls (controls implemented to reduce the immediate impact of the risk occurring)	Consequence	Likelihood	Risk Priority Rating	RCE Risk Control Effectiveness	Include: - Preventative Controls (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring), and - Residual Controls (controls implemented to reduce the immediate impact of the risk occurring)	Consequence	Likelihood	Risk Priority Rating	How we know if we are succeeding. Include comments on effectiveness. This may include i.e. measurements, inspections, supervision where necessary.	Person allocated the responsibility for implementing the agreed controls	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:	
Driving on Public Roads		1	Driving	1	Employees	Principal Contractor	Daily	Vehicle incidents, High Jacking of vehicles	Safety	Normal	Not paying attention, risk assesment not done, not farmliar with the road,making use of cellphone, distractions, exposed to unsafe behaviours, congested roads, Pedestrians and live stock, Taxi and Truck on the road, Civil unrest	Injuries, Property damage	Staff driving vehicles to have national driver's license , vehicles in roadworthy condition, required POP permits transporting employees, only transport authorised staff in vehicle, pre-trip checks,and obeying of all traffic laws, Adherence to life saving rules .	3	3	II	P	To adhere to the existing controls	3	2	III	Incident records		National Road Safety Act, ESKOM Procedure 32-93 (Vehicle and driver safety management) , ESKOM Procedure 36-588 (Vehicle safety and transportation management) , Life saving rules						
Long distance driving		2	Driving	2	Employees	Principal Contractor	Daily	Vehicle incidents	Safety	Normal	Not paying attention, risk assesment not done, not farmliar with the road,making use of cellphone, distractions, exposed to unsafe behaviours, Less rest periods, Taxi and Truck, Pedestrians and live stock	Fatigue, Injuries, Property damage	Staff driving vehicles to have national driver's license , vehicles in roadworthy condition, only transport authorised staff in vehicle, pre-trip checks,and obeying of all traffic laws, adherence to life saving rules.	3	3	II	P	To adhere to the existing controls	3	2	III	Incident records		National Road Safety Act, ESKOM Procedure 32-93 (Vehicle and driver safety management) , ESKOM Procedure 36-588 (Vehicle safety and transportation management) , Life saving rules						
Foundations, Earthworks, Restricted Excavation, Erection of road lights poles, SANS 1200 GA Concrete (small works), Erection of Fences concrete, Building of Guardhouse.Taking old fences down, Erecting sliding gates		3	Equipment and material handling	3	Employees, Visitors and contractors	Principal Contractor Construction Manager, Site Supervisor	Daily	Hand and body injuries	Safety	Normal	Not focussed, Wearing loose clothing, Holding loose equipment	First aid injuries or possible fractures	Be alert when entering a HV yard,Control rooms and comply with instructions as per the signposting. Always pay attention. Method Statement for safe execution as per HIRA. Building method statement, electrical connection method statement, elevated work method statement	2	2	IV	P	Adhere to the existing controls	1	2	IV	Incident records		Lift, escalator and passenger conveyor regulations accordance with the SABS 1545-12 or SABS 1543.						
Walking on substation grounds (uneven surfaces)		4	Not paying attention, Use of cellphones while walking, Inappropriate footwear,Not holding to handrails, Distractions	4	Employees, Visitors and contractors	Site Supervisor	Daily	Slip,Trip and Fall	Safety	Normal	Ascending and descending stairs,making use escalators	First aid injuries or possible fractures	OPERATIONAL CONTROL: All staff to obey barricading and sign posting, use of handrails when ascending and descending stairs and escalators, take note of possible tripping, slipping and falling hazards. PROGRAMME: wear correct footwear, SHE talks, and apply situational awareness.	2	2	IV	P	To adhere to the existing controls	1	2	IV	Incident records								
Walking in and between substation buildings or facilities		5	Uneven surface, Slippery surfaces, Not paying attention, Use of cellphone while walking, Use of inappropriate foot wear, not holding onto hand rails, Distractions,	5	Employees	Site Supervisor	Daily	Slip,Tripp and fall	Safety	Normal	Wet or slippery floors, loose cables, ascending and descending stairs,making use escalators, poor houskeeping	First aid injuries or possible fractures	OPERATIONAL CONTROL: All staff to obey barricading and sign posting, use of handrails when ascending and descending stairs and escalators, take note of possible tripping, slipping and falling hazards. PROGRAMME: wear correct footwear, SHE talks, and apply situational awareness.	4	2	III	P	To adhere to the existing controls	1	2	IV	Incident records		Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees.						
Daily site activities and ergonomics at worksites		6	Poor ergonomics at workstations	6	Employees	Principal Contractor Construction Manager, Site Supervisor	Daily - Office people - 8hrs	Work related upper limb disorders, repetitive strain syndrome, carpal tunnel syndrome	Safety	Normal	Not taking regular breaks, not sitting properly,not using mouse wrist pad .	Injuries and back problems	Use of footrest for identified employees, correct workstation layout, ergonomically designed chair, avoid long working sessions (allowing muscles to relax).	2	2	IV	P	To adhere to the existing controls	1	1	IV	Reports and supervision		Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 8 of the Facilities Regulation (Seats).						