
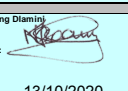
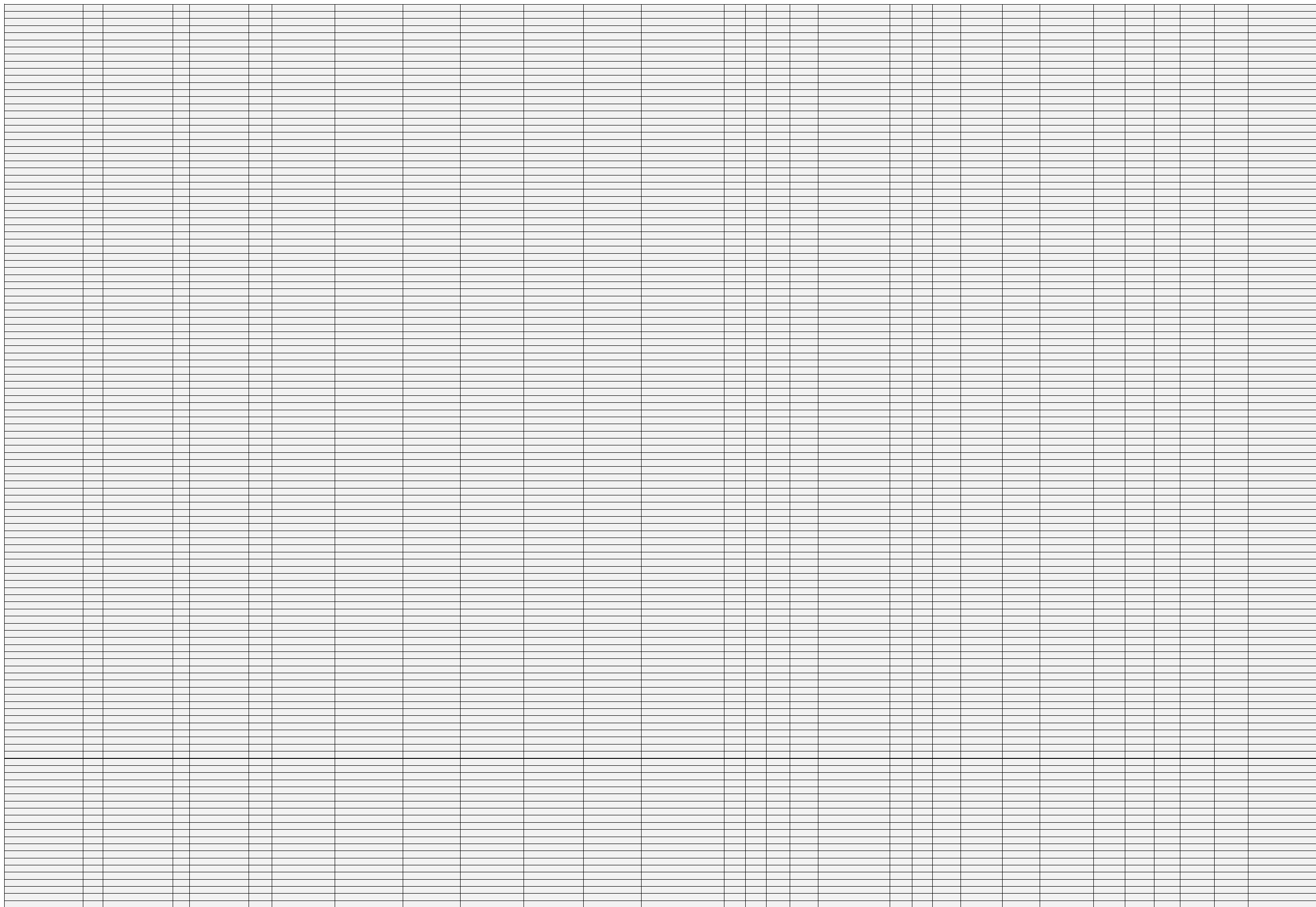


Occupational Health and Safety Baseline risk assessment template																															
Project/Dept:		Asset Management Project Execution: Hydra SS								Scope of Risk Assessment		Fire detection system installation as per detailed scope				Next Review Date:		Unique identifier		240-70044602											
12-Oct-20										Prepared By:		Peter Tomlinson Signed:  Date: 12-10-2020		Authorised By:		Nthuseng Dlamini Signed:  Date: 13/10/2020		Revision:		0											
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 (When applicable)	Hazard nr	Hazard Identification	Risk nr	Associated risk (Risk identification)	Risk type	Exposed group/employees	Exposure patterns	Cause(s) of the risk	Risk Owner	Conditions/Routine/Non-routine	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	Legal and Other Requirements	Initial Target Date	Revised Target Date	Current Status	Independent Verification (i.e. Confirmation that the objectives have been met)		Comments
												Consequence	Likelihood	RCE Risk Control Effectiveness	Consequence	Likelihood		Date Done:	By whom:												
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	Who is exposed to the hazard i.e. Employees, visitors, members of the public, etc.	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?	Who is accountable for making sure the controls and monitors are - in place, implemented, regularly reviewed for effectiveness.	Indicate Yes or No. Yes if routine and No if non-routine. These <del>short-term</del> changes to conditions that could not be reasonably anticipated e.g. Emergencies	What is the expected adverse impact on the objective?	Include: - <u>Passive Controls</u> (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring); and - <u>Active Controls</u> (controls implemented to reduce the immediate impact of the risk occurring)	Consequence	Likelihood					Include: - <u>Preventative Controls</u> (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring); and - <u>Reactive Controls</u> (controls implemented to reduce the immediate impact of the risk occurring)	Consequence	Likelihood		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	Vehicle Collision, Hijacking,	Safety	Employees, Members of the Public	During Project Travelling	Not paying attention, risk assessment not done, not familiar 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, Fatigue of drivers	Principal Contractor Employer	No	Injuries, Fatalities, Property damage	Staff driving vehicles to have national driver's license and Defensive driving techniques, vehicles in roadworthy condition, only transport authorised staff in vehicle, pre-trip checks, and obeying of all traffic laws, Adherence to life saving rules and drive Cam.	3	3	II	P		To adhere to the existing company controls, Driving safety, Drivers Assessed, Valid traffic driver licence, PDP permit	3	2	II	Incident records	Contractor Employer, Construction Manager Appointed	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	Date on awarding of contract	During Project	Progress			Once Contract is awarded, Safety Evaluation Done, Base Line to be revised	
Long distance driving	2	Driving	2	Vehicle Collision, Hijacking, Heavy transportation of equipment	Safety	Employees, Members of the Public	During Project Travelling	Not paying attention, risk assessment not done, not familiar with the road, making use of cellphone, distractions, exposed to unsafe behaviours, Less rest periods, Taxi and Truck, Pedestrians and live stock	Principal Contractor Employer	No	Injuries, Fatalities, Equipment damage	Staff driving vehicles to have national driver's license and Defensive driving techniques, vehicles in roadworthy condition, only transport authorised staff in vehicle, pre-trip checks, and obeying of all traffic laws, adherence to Eskom life saving rules. Secure all tools and equipment on trucks, employees seating properly and secured with seat belts.	3	3	II	P		To adhere to the existing company controls	3	2	II	Incident records	Contractor Employer, Construction Manager Appointed	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	Date on awarding of contract	Duration of Project	In Progress			Once Contract is awarded, Safety Evaluation Done, Base Line to be revised	
<ul style="list-style-type: none"> <li>Install a fire detection system in each stand-alone protection kiosk at Hydra MTS.</li> <li>Wire the system to the power distribution board and fire and air conditioner alarm panel.</li> <li>Ensure that the smoke alarm/fire alarm is marshalled to the ERTU and communicated to control.</li> <li>The smoke/fire alarm should be marshalled together with the over/temperature alarm for system reliability.</li> </ul>	3	Equipment and material handling, physical work execution	3	Electrical contact, falling into excavations, trips falls on site, snakes, insects in trenches, cable damage	Safety	Contractor Employees, Visitors and Eskom Employees	Duration of project	Not focussed, Not wearing appropriate PPE for task at hand, Holding loose equipment, Not following safety/quality method statements, Risk Assessments, Daily Risk Assessments on tasks	Principal Contractor Employer, Construction Manager appointed for contractor, Eskom Project Manager	Yes	First aid injuries, Fatalities or possible fractures	Safety method statements for task to be adhered to. Training of competency for all employees, Safety file approved with compliant contents to work, Regular safety assessments on project, task observations by Contractor Manager	2	2	IV	P	Adhere to the existing controls	1	2	IV	Incident records	Construction Manager Appointed	OHS ACT Act 83 of 1993, Construction Regulations as amended	Date before construction work commence	Duration of Project	In Progress			Safety file to be assessed and safety plan to be approved for construction work prior work commencement.		
Walking on substation grounds (uneven surfaces)	4	Not paying attention, Use of cellphones while walking, Inappropriate footwear, Not holding to handrails, Distractions, Slip Trips	4	Falls, trips	Safety	Contractor Employees	Duration of project	Not paying attention to activity at hand, Use of cellphones while walking, Inappropriate footwear, Not closing trenches or barricading off, Distractions, Slip Trips	Principal Contractor Employer, Construction Manager appointed for contractor, Eskom Project Manager	No	First aid injuries or possible fractures	OPERATIONAL CONTROL: All staff to obey barricading and sign posting, use of walk ways, 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	Construction Manager Appointed	OHS ACT Act 83 of 1993, Construction Regulations as amended	Date contract commencement	Duration of Project	In Progress			Progress safety audits to be done for assurance		
Walking in and between substation buildings or facilities	5	Walking uneven surface, Slippery surfaces, Not paying attention, Use of cellphone while walking, Use of inappropriate foot wear, not holding onto hand rails, Distractions,	5	Falls, trips	Safety	Contractor Employees	Duration of project	Not paying attention to activity at hand, Use of cellphones while walking, Inappropriate footwear, Distractions, Slip Trips, wet areas	Principal Contractor Employer, Construction Manager appointed for contractor, Eskom Project Manager	No	First aid injuries or possible fractures	OPERATIONAL CONTROL: All staff to obey barricading and sign posting, use of handrails when ascending and descending stairs, take note of possible tripping, slipping and falling hazards. PROGRAMME: wear correct footwear, SHE talks, and apply situational awareness.	4	2	II	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.	Commencement of construction work	Duration of Project	In Progress					
Daily site activities and ergonomics at workites	6	Poor ergonomics at workstations	6	Incorrect method of working	Health	Contractor Employees	Duration of project	Not taking regular breaks, not sitting properly, repetitive work movement with tools equipment.	Principal Contractor Employer, Construction Manager appointed for contractor, Eskom Project Manager	Yes	Injuries and back problems	Correct work site layout, ergonomically designed tools for tasks, 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).	Project Commencement	Duration of Project	In Progress					
Mobile plant, equipment and tools	7	Incorrect usage of Mobile Plant, equipment, tools on site	7	Faulty tools causing injuries, incorrect operating of plant	Safety	Contractor Employees	Daily - Construction site - hrs,	Incorrect usage of equipment, not follow procedures, method statements, untrained employees	Principal Contractor Employer, Construction Manager appointed for contractor, Eskom Project Manager	No	Injuries, Fatalities, Damage to equipment and environment	Ensure employees, operators are fully trained in operating plant and equipment and maintained under all operating circumstances	2	2	IV	P	To adhere to the existing controls	1	1	IV	Reports, Inspection and Supervision		Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 3 of the Environmental Regulations for Workplaces (Lighting).	Project Commencement	Duration of Project	In Progress					
Working within the substation environment - work will be taking place in-between the security fence live chamber	8	Electrocution	8	Incorrect work methods, not following safety method statements, Risk Assessments not done for tasks, Daily Risk Assessments on tasks not done, unauthorised ORHVS workers, No supervision on employees	Safety	Contractor Employees, Visitors, Eskom Employees	During working daily in the HV environment	Incorrect work methods, not following safety method statements, Risk Assessments not done for tasks, Daily Risk Assessments on tasks not done, unauthorised ORHVS workers, No supervision on employees	Construction Manager Appointed	No	Injury, illness, fatality and property damage, Electrical Burns	OPERATIONAL CONTROL: ORHVS Authorization Contractor Site Supervisor (Responsible Person), EP and evacuation shared with all on work site... MONITORING AND MEASUREMENT: Regular safety assessments on risks and methods of works, inspections of electrical equipment (PEE checks), SHE rep inspections. PROGRAMME: SHE induction, fire extinguisher training, observations by project supervisor appointed, situational awareness.	4	2	II	P	To adhere to the existing controls	2	1	IV	Inspections	Construction Manager Appointed	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 3 of the Environmental Regulations for Workplaces (Lighting).	Project Commencement	Project Duration	In Progress					
Using appropriate PPE as per Hazard Identification Risk Assessment	9	Improper PPE usage causing injuries to parts of body exposed	9	Improper usage, handling and not focusing on the job at hand	Safety	Contractor Employees, Visitors, Eskom Employees		Hazardous substances (Transformer Oil), snakes, spiders, scorpions, bees, etc. During working on site daily	Construction Manager Appointed	No	Injury, illness, fatality and property damage, Electrical Burns	SHE talks, safety induction, Risk Assessments (daily), Supervision, SMART Behavioural Safety Observations, Job or Task Observations, etc.	4	2	II	P	Warning signs in all areas, safety toolbox talks (awareness)	2	1	IV	Incident records, Safety observations, job observation	Construction Manager Appointed	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 3 of the Environmental Regulations for Workplaces (Lighting).	Project commencement		In Progress					





Consequences	6	III	II	I	I	I
	5	III	II	II	I	I
	4	IV	III	II	I	I
	3	IV	III	II	II	I
	2	IV	IV	III	II	II
	1	IV	IV	III	III	III
		#	#	#	#	#
		#	#	#	#	#
		#	#	#	#	#
		#	#	#	#	#
		Likelihood				

Yes	Safety	1	1	F	I
No	Health	2	2	P	II
					III
		3	3	I	
					IV
		4	4	TI	
		5	5	N	
		6			

