

<b>ESKOM TRANSMISSION</b>										REFERENCE TO 240-78305014	REV 1 Review Date: 31 March 2019
<b>ENVIRONMENTAL MANAGEMENT PROGRAMME FOR SUPPLIERS / CONTRACTORS</b>											
Legal Requirements: <a href="http://enviro.eskom.co.za/legalregister.htm">http://enviro.eskom.co.za/legalregister.htm</a>										UNIQUE IDENTIFIER NO:	240-106832932
or <a href="https://libryo.com">https://libryo.com</a>											

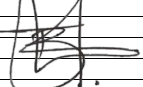
\*The contents of this EMP is not limited and the responsibility remains with the relevant supplier / contractor to ensure all project specific activities and legislation (including local by-laws) have been identified and managed\*  
 \*The purpose of this EMP is to provide a guideline to manage project activities that are not subjected to the EIA process i.e. National Environmental Management Act, 1998 (Act No.107 OF 1998) Environmental Impact Assessment Regulations (2014)\*

**PROJECT NAME: Servicing of Fire Extinguishers at Southern Grid Substations**

11/01/2023											
NR	ACTIVITY	ASPECT	IMPACT	SIGNIFICANCE	OBJECTIVE	TARGET	MEANS/METHOD STATEMENT	DUE DATE	RESPONSIBLE PERSON	Completion Date	Environmental Legislation
1	Procurement	Evaluation and adjudication of tender submissions	Failure to include environmental requirements during tender process could result into environmental degradation	High	Ensure Eskom SHEQ requirements are specified / included during tender process	With the submission of each tender	Ensure Environmental requirements are taken into account during tender process	Tender submission	Buyer		SHE Requirements for the Eskom Commercial Process (S2-726)
		Placement of order/contract with suppliers	Specifying environmental criteria for supplies & advice on the use of products or services to minimise the environmental impacts.	High	Ensure Environmental requirements are taken into account when placing an order	Placement of order	Specifying environmental criteria for suppliers/service providers	Tender stage	Buyer		SHE Requirements for the Eskom Commercial Process (S2-726)
		Assessing contractors	Failure to make contractors aware of the impact of their deviations from set procedures could lead to negative environmental impacts	High	Ensure that contractors are aware of the impact of their deviations from / non-compliance to set procedures.	Prior commencement of activities	SHEQ File evaluation and approval for tender requirements	Prior commencement of activities	Transmission Environmental Management / Project Manager		SHE Requirements for the Eskom Commercial Process (S2-726)
2	Project Management	Assessment & Planning	Failure to conduct risk assessments and proper planning during the execution of this project activities may lead to environmental and safety incidents and damage to private / property that may result in disputes with landowners.	High	To ensure that risk assessments and proper planning are conducted to minimise or avoid environmental aspects that might lead to negative environmental impacts	0 Legal Contraventions	Environmental requirements can be discussed daily during the toolbox talks.  Environmental Risks assessments of the area can be done together with safety observations / assessments.  Emergency contact numbers must be available on site.  Contractors working for Eskom must have identity cards, clearly marked clothing and vehicles.	Duration of project	Project Manager / Contractor		Constitution S 24, 32 National Environmental Management Act (107 of 1998, NEMA) OHS Act (85 of 1993)
2.1		Environmental Training & Awareness of contractors.	Lacking environmental awareness / knowledge of Eskom Transmission South Grid and other relevant environmental legal requirements may lead to legal contention, damage to the environment and private property that may result into disputes and claims with landowners.	High	To ensure contractors are aware of environmental requirements i.e. the EMP and environmental legal and other requirements	0 Legal Contraventions	SHE Induction Training must be provided to all contractors before any project activity may start.  Attendance Registers of SHE Induction must be kept by the project manager / BU SHE Depts and copies included in the contractor's SHE file  Environmental Requirements can be highlighted daily during the toolbox talks to refresh workers minds on what is required.  Relevant training requirements must be identified up front before tender award and will be checked during tender approval and SHE file evaluations and approvals.	Duration of project	Project Manager / Contractor/ Environmental Management		Constitution S 24, 32 National Environmental Management Act (107 of 1998, NEMA) OHS Act (85 of 1993)
3	Administration	Environmental & Safety File	Non compliance to legal requirements and non-conformance to other requirements and conditions set out in the EMP can lead to severe impacts resulting from the list of aspects identified.  Failure to keep relevant and required documents for record purposes can lead to legal contentions, civil and financial liability  Failure to comply with the EMP and other Eskom requirements will result in the issuing of an NCR against the contractor.	High	Ensure documentation system is maintained	0 Legal contraventions / claims / safety incidents	Update documents as activities takes place.  Keep all records and documentation with regards to project.	Duration of project	Project Manager / Contractor		OHS Act (85 of 1993) NEMA EIA Regulations (2010) NEM: Waste Management Act
							Submit reports as required after inspections/investigations/and completion of work	Duration of project	Project Manager / Contractor		OHS Act (85 of 1993) NEMA EIA Regulations (2010) NEM: Waste Management Act
							All Environmental incidents to be reported.	Duration of project	Project Manager / Contractor		OHS Act (85 of 1993) NEMA EIA Regulations (2010) NEM: Waste Management Act
4	Reporting	Recording and reporting of Environmental related incidents	Failure to report could have a major impact on the environment, human health and well being and could lead to mitigation measures not taken	High	Ensure all incidents are recorded and reported	0 Legal contraventions / claims / safety incidents	To keep and SHE incident register on site  To record and report all SHE incidents within 24 hours to Project Manager / BU Env Dept	Duration of project	Project Manager / Contractor		OHS Act (85 of 1993) ISO 14001:2004 Requirements (EMS) ISO 9001 Requirements (BMS) - 240-13308717-Environmental Incident reporting procedure. - National Environmental Management Act 107 of 1998 section 28 Duty of Care, - National Water act 36 of 1998 section 20 (Control of emergency incidents), - National Environmental Act 107 of 1998 section 30 (Control of emergency incidents)
5.1	Social Interaction	Public / Landowner Complaints	Inappropriate activities, activities in non-compliance to the EMP, legal and other requirements may lead to customer complaints.	High	To ensure that public complaints are address and successfully resolved.	Resolution / Management of public and landowner complaints	All public complaints must be kept in a register with proof of resolution on the site SHE file.  All public complaints must be reported to the relevant BU Env Dept under which the project is executed.  BUs to record and monitor public / landowner complaint until resolved  Public complaints must be closed out on project completion / handover to the BU	Duration of project	Project Manager / Contractor		CONSTITUTION S24, S32; NEMA S2, S24, S31
								Duration of project	Contractor		
								Duration of project	Southern Grid Env Dept		
6.1	Wildlife Interaction	Interaction between people and animals.	The injuring or killing of animals accidentally with vehicles can lead to claims against Eskom. Interaction with Snakes can lead to employee fatalities / injuries	Medium	To ensure that vehicles are driven responsibly with caution and legal / safe speeds.  That all snake/wildlife incidents are reported for investigation and mitigation.	0 Legal contraventions / claims / safety incidents	To conduct detailed risk assessments of areas where work needs to be done  To keep and maintain a Environmental Incident register on site which includes Wildlife Incidents.  To report such incident at to the Project Manager immediately after occurrence.  To keep Emergency numbers that consist of snake handlers, bee handlers etc.	Duration of project	Contractor		CONSTITUTION S24, S32; NEMA S2, S24, S35, S31;

6.2	<b>Animal Interaction(Monkeys)</b>	Animal electrocutions and collisions with substation infrastructure.	Animal fatalities can be due to electrocutions and collisions plant infrastructure. This may cause failure of equipment and interruption of supply.	High	To ensure animal electrocution / collisions are reported.	0 Legal Contraventions / 0 plant failures or interruption of supply	To report occurrences of animal incidents to the BU Environmental Dept	Duration of project	Project Manager / Contractor		
3.1	<b>VEGETATION MANAGEMENT &amp; BUSHCLEARING</b>	The cutting / removing of protected plant / tree species	Resulting into a legal contravention. Financial and legal prosecution implication from the authorities and or private property owners.	HIGH	To ensure that no protected tree are cut plants removed / transported without a permit.	0 Legal Contraventions	Any Eskom staff / contractors must undergo SHE & Security induction prior to the start of any project.  Relevant Eskom staff / contractors must have done tree identification training prior to them starting with any bushclearing program.  Permits must be obtained from the Dept. of Agriculture & Forestry before any protected tree is cut.  Tx Landowner Approval Certificate / Consent form must be completed prior to the start of the project and landowners must sign off on status of property after completion of any bush clearing activities.	Before project start  On contract award / before project start  Before project start  Before entering servitude / private property  Before leaving servitude / private property	Project Manager / Contractor / Site supervisor  Contractor  Southern Grid Env Department  Contractor / HV Plant	NWARG 704 S7, NVFFA S16, NFA S7, NFA SS 8-11, 497/2006, GN 817/2007 S7(1), S15(1), NEM:BDAREGS NEM:BDAREGS 151-152, NEM:BDAREGS R138, NEM NEM:BDAREGS 149 CH 6, NEM:PAAS 59-10, S44(1), S 55(5), NEM:PAAR1061  National Environmental Management Act, Act 107 of 1996 of care and remediation of environmental damage. National Water Act, Act 36 of 1998, Section 19 prevent effects of pollution - Hazardous Substances Act No 15 of 1973, Sec 1 - 2 CI waste into groups. - Occupational Health and Safety Act Hazardous Chemical 1179 Section 15, disposal of hazardous chemical substa - Environmental Management, Waste Management Act, General requirements for storage of waste, Sec 25 Dule transporting waste, Sec 26 Prohibition of unauthorised d - Basel Convention, Annexure 2.3 and article 4 and 12, I Convention, Article 1.2 and 9  Fertilizers, Farm Feeds, Agricultural Remedies & Stock f 36 of 1947, GN R383 of 1983-02-25.  CARA S2, S6, S(4)(5), S7, S10, S18(1)(b), CARAREG R CARAREG R1048 SS15-16; AGPA S3, S5, S6;	
3	<b>Access to substation</b>	Use of access roads leading to Substation	The incorrect use of access roads in areas, which are prone to erosion, especially during wet conditions can lead to serious erosion. This can eventually make the entire area inaccessible and can affect the landowner's farm's carrying capacity. Damage to access roads and property can lead to claims and legal disputes and rehabilitation cost incurred.	High	To use access roads which belongs to land owners on private property responsibly according to legal and other requirements, EMP, method statements	0 Legal Contraventions	To capture the condition of any access road prior to the start of the project to report and keep for record purposes.  All defects / damages occurring during the project should be reported, rectified immediately on occurrence.  The onus is on the contractor to be responsible for any rehabilitation on site/s should it damage / pollution incidents resulted from this project.  Landowner's consent must be obtained prior to the start of the project and landowners must sign off on status of property after completion of any project activities.	Before project starts  Duration of project  Duration of project  Before entering servitude / private property  Before leaving servitude / private property	Project Manager / Contractor  Contractor  Contractor  Contractor / HV Plant	CONSTITUTION S24, S32; NEMA S2, S24, S35, S31; N ECA S15, S18A, A4, S20, S20(5), S31A; GP-AN 2008 E AN 2030 S44(2)(b)(h); ADRDRA S9(1), S9A; ESKA S12 S21, S23-27; NFA S28; NVFFA S12, S13, S15-16; NEM AMENDMENT ACT NO 9 OF 2004; NEMA S24 (A); NE R386, R387; ECA S22; NWA S41; NHRA (NO 25 OF 19) (NO 28 OF 2002) S 10(1); S10(1); NWARG R104 S1, 1 ESTA; LTA; CARA S2, CARAREG R1048, S14, NWARG Eskom Access to Fams Standard (32-1173)	
3.1		Access of Contractors in to the substation	People / Contractors from outside can have a negative impact on environment and pose security risks to employees/landowners as well as affecting relationships negatively. This may lead to deputes and claims against Eskom.	High	To ensure that external people / contractors working on behalf of Eskom Tx do not contravene any legal or other requirement / bribe any agreement.	0 Legal Contraventions	All contractors must be in possession of a form of identification indicating who they are, employer and project and have marked clothing and vehicles.  Permission should be requested before entry into the substation  All contractors should wear Safety shoes upon entering the substation  All contractors staff must have SA Police clearance submitted with their copies of identification during SHE evaluations and approvals.	Duration of project  Before/during project start	Project Manager / Contractor	CONSTITUTION S24, S32; NEMA S2, S24, S35, S31; F/ 121; HAZACT S2, S3A, S5, S8, S21, S24, S25, S32, S3 1179 S14, NEMA REG R385 CH6 R386, R387	
6	<b>Driving of Vehicles</b>	The incorrect use of access roads when going to install the top mesh cover at the oil dam, speeding or driving irresponsibly, maintenance of vehicles, causing damage to property or injuring people and trampling on vegetation	Impact on vegetation, soil erosion	Medium	1. Ensure that one access route is used and maintained. 2. Trampling of vegetation during the construction phase must be kept to a minimum.	0% Legal Contraventions	1. Construction staff to obtain EMP and induction training to highlight environmental risks and measures. 2. All construction equipment and activities to remain in the designated servitude and agreed access roads.	Duration of project	Contractor	National environmental management Act (No107 of 1998)	
19	<b>Fire Management</b>	Starting of fires due to negligence	Damage to property, fatalities of people and animals / livestock, legal contraventions, claims	High	To avoid fires from Eskom activities / negligence	0 Legal contraventions / claims / safety incidents	No fires allowed to be made on any Eskom site / private property in servitudes  Risk assessments to be done for all project activities and precautions / preventative measures to be taken for activities which may pose a fire risk  Ensure EPP address fire risks  Have emergency contact details in place.	Duration of project	Contractor	NVFFA S12,13,17,18; NVFFA CH2.4 S13,15,16,34, CH	
20.1	<b>Waste Management</b>	Domestic / General Waste and litter generated during this project in the servitude.  Including the O-rings, hose rings from the fire extinguishers	These types of activities cause pollution and degradation to the environment. Leaving waste at the substation and on private property can lead to landowner complaints and claims against Eskom	High	Waste is handled and dispose of as required by legislation and best practices.	0 Legal contraventions / landowner complaints	No waste to be left on site/ servitude after shift ends.  Domestic / general waste to be disposed of at the closest registered / licensed municipal waste site.  Waste disposal register to be completed for waste disposal and kept on site in environmental and safety file.  Retain all waste disposal documentation / records  Report waste disposal figures to BU Env Dept.	Duration of project  Duration of project  Duration of project  Duration of project	Project Manager / Contractor  Project Manager / Contractor  Project Manager / Contractor  Project Manager / Contractor	NEM: Waste Management Act (2009) Environmental Conservation Act (1989) Eskom Waste Standard (32-245)  Constitution S24, S32, S33, NEMA S2, S28, S31, S35 Hazardous Substance Act (S1 2.3); HazAct R452,R453; HazReg R1382; SANS 10228; NATA REG 225; MINREGS(1998) S4,10,10.2,10.2.1, 10.2.2,10.2.3; OSHA SA 10; OSHA GENERAL SAFETY REGS R1031 SA, S41(9)(a), S41(9)(c); OSHA HAZ CHEM SUBSTANCES REGS R1179 S1, S15(a-f)  Eskom Waste Standard (32-245)  NEM: Waste Management Act (2009)  Eskom Waste Standard (32-245)	

						All waste is not be stored on site and is to be removed/transported from site by the appointed contractor	Duration of project	Contractor		NEM: Waste Management Act (2009) Eskom Waste Standard (32-245)
21	Disposal of potentially Covid-19 waste(e.g used tissues,disposable cleaning cloths,gloves and maske etc.)	Disposal of potentially Covid-19 waste	If Covid-19 waste is not disposed properly it may cause harm to the environment and health risk to people	High	To ensure that Covid-19 infectious waste is disposed and handled in a manner that is not harmful to the environment and people	1. Contractor to provide Double Red Plastic bags(infectuous) to be used to put in Covid-19 or medical waste and tied when full. 2. Contractor to have a Health care risk bins/box clearly marked Covid-19/medical waste 3. A disposal certificate to be submitted for each disposal 4. A separate waste manifest document shall be made available to Eskom indicating the volumes of waste removed. 5. The collection, removal and transportation of the waste shall be provided by the appointed contractor or service provider. 6. All personnel who handle this waste should wear the appropriate PPE. 7. The waste should not be kept for more than 90days(90days) at Eskom Site.	Duration of project	Project Manager/ Contractor		SANS 10246: National Environmental Management Waste Act 58 of 2008 Sec 16(1) (d) manage waste in a manner that it does not endanger health or the environment or cause a nuisance through noise, odour or visual impacts.National Environmental Management Act (NEMA) S28 Eskom Waste Standard Occupational Health & Safety ACT (OSHA) 85 OF 1993, S12(a) -S14.S18
22	House keeping	Poor house keeping	Mixing of waste	High	To ensure that waste is disposed in separated waste Bins	1.Contractor to provide Black Plastic bags for waste disposal. 2.Contractor to follow Southern Grid House keeping strategy by disposing waste on the Waste bins that are clearly labelled (Domestic Hazardous General) 3. Signpost to Audit compliance 4. No waste whether it be biodegradable or not, is to be left on site once construction has ended.	Duration of project	Contractor		Southern Grid House keeping strategy
23	Use of Facilities(water and toilets)	Human Excretion	Leads to Land Pollution if there are no ablation facilities available	Low	To ensure that no human faeces on under Eskom servitudes. To ensure that all Environmental incidents/ public complaints are reported.	Contractors to ensure that they make available ablation facilities for their workers. Ensure that they have safe disposal method for the disposal of human waste. Ensure that contractors provide their own toilets.Ensure submission of disposal certificate.	Duration of project	Contractor		Constitution of the Republic of South Africa, 1996 National Environmental Management Act No. 107 of 1998 National Water Conservation of Agricultural Resources Act, Act 43 of 1983 Conservation of Agricultural Resources Act, Act 43 of 1983 Regulations National Water Act No. 36 of 1988 Regulations Cape Nature and Environmental Conservation
23.1		Water availability	Wastage of water	Low	To ensure that the contractor provide their own water. Not to use or waste water from the land owner property.	100% Compliance from contractors and suppliers 1. To ensure that the contractor provide their own water. 2. Contractor must provide water on site for drinking and other purposes. 3. Contractor must provide their own toilets on site however if given permission to use the ones on site, it must be used with the consent of the Supervisor of the station.	Duration of project	Contractor		National Water Act, Act No. 36 of 1998.

Transmission Senior Environmental Advisor			Transmission Project Manager
Name & Surname	Ziyanda Mkhane		Name & Surname
Signature			Signature
Date		13/01/2023	Date

CONTRACTOR DETAILS \_\_\_\_\_ (Name of Contractor), accept the above Environmental Management Plan and acknowledge having read and understood my responsibilities.

SIGNATURE \_\_\_\_\_

CONTACT DETAILS \_\_\_\_\_

PROJECT MANAGER/ SITE REPRESENTATIVE (NAME) \_\_\_\_\_

SIGNATURE \_\_\_\_\_