

	NORTHERN CAPE GRID ENVIRONMENTAL MANAGEMENT PLAN - HYDRA SUBSTATION FIRE DETECTOR PROJECT  Legal Requirements: <a href="http://intranet.eskom.co.za/EskomBusinesses/OtherSites/Pages/Le.aspx">http://intranet.eskom.co.za/EskomBusinesses/OtherSites/Pages/Le.aspx</a>	Template Identifier	240-43921898	Rev	6
		Document Identifier	240-131566734	Rev	1
		Effective Date	5 August 2016		
		Review Date	August 2019		

\*This EMP should be used to assist Project Managers/Contractors/ Vendors in compiling their project specific EMP\*

\*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 has 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.t.o. National Environmental Management Act, 1998 (Act No. 107 OF 1998) Environmental Impact Assessment Regulations (2014)\*

Site: Hydra Substation

Project Code:

Project Manager:Nthuseng Dlamini

Project Manager Email: nthuseng.dlamini@eskom.co.za

Compiled by: Oarabetsa Moncho

Compilers Email: Monchooi@eskom.co.za

Date Compiled: 27 June 2018

Project / Contract Number:

Scope of work: Fire Detector Project

• Install a fire detection system in each stand-alone control kiosk at Hydra.

• Wire the system to the power distribution board and fire and air conditioner alarm panel.

• The smoke/fire alarm should be marshalled to the ERTU and communicated to control. The smoke/fire alarm should be marshalled together with the over temperature alarm for system reliability.

Note: Appointed contractor to submit method statements based on the site SPECIFIC EMP (project aspects and impacts).

NO.	ACTIVITY	ASPECT	IMPACT	SIGNIFICANCE	OBJECTIVE	TARGET	MEANS	LEGAL OBLIGATION AND OTHER REQUIREMENTS	DUE DATE	RESPONSIBLE PERSON	DATE COMPLETED	ACTION EFFECTIVENESS		
												Fully effective	Partially effective	Ineffective
1	Procurement	Placement of order/contract with suppliers	Specifying environmental criteria for supplies & advice on the use of products or services to minimise the environmental	HIGH	Ensure Environmental requirements are taken into account when placing an order	Placement of order	Specifying environmental criteria for suppliers/service providers .	SHE Requirements for the Eskom Commercial Process (32-726)	Prior commencements of activities	Buyer/Project Manager				
		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	SHE Requirements for the Eskom Commercial Process (32-726)	Prior commencements of activities	Transmission Environmental Management / Project Manager				
2	Project Management	The management of the project according to EMP and relevant environmental legal requirements .	Failure to ensure compliance with the EMP and relevant environmental legal requirements may lead to legal contraventions, customer complaints, claims against the business and damage to the environment and private / state properties.	HIGH	To ensure that the project is effectively managed according to the EMP and all relevant environmental legal and other requirements.	0 Legal Contraventions/ 0 Safety Incidents	Through discussing all environmental non-compliances and requirements under an agenda items at the project inaugural meeting and progress meetings, allocating responsible persons and action dates for mitigations.	National Environmental Management Act 107 of 1998, Sections 24(5), 24M, 24(2), 24(D)	Duration of project	Project Manager / Contractor				
2.1	Project Management	Assesment & Planning	Failure to conduct line risk assessments and proper planning during the execution of this project activities may lead to environmental and safety incidents and damage to private / state 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/ 0 Safety Incidents	Environmental requirements can be discussed daily during the toolbox talks.  Environmental Risks assessments of the area can be done together with safety observations / assessments.	Constitution S 24, 32 National Environmental Management Act (107 of 1998, NEMA) OHS Act (Act 85 of 1993)	Duration of project	Project Manager / Contractor				

2.2	Project Management	Environmental Training & Awareness of contractors.	Lacking environmental awareness / knowledge of Eskom Transmission and other relevant environmental legal requirements may lead to legal contravention, damage to the environment and private property that may result into disputes and claims with	HIGH	To ensure contractors are aware of environmental requirements i.t.o. the EMP and environmental legal and other requirements	0 Legal Contraventions 0 Safety Incidents	SHEQ 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	Constitution S 24, 32 National Environmental Management Act (107 of 1998, NEMA) OHS Act (Act 85 of 1993)	Duration of project	Project Manager / Contractor				
3	Waste Management	Domestic / General Waste and litter generated during this project.	These types of activities cause pollution and degradation to the environment.	MEDIUM	Waste is handled and dispose of as required by legislation and best practices.	0 Legal contraventions	No waste to be left on site. General waste to be disposed of at the closest registered / licensed municipal waste site. Waste disposal records must be sent to the Env Department Domestic /	NEM: Waste Management Act (2009) Environmental Conservation Act (1989)  Eskom Waste Standard (32-245)	Duration of project	Project Manager / Contractor				
4	Hazardous Waste Management	All types of Hazardous waste generated during this project .	Hazardous waste are dangerous to humans and animals, causing land, water and ground water pollution. Incorrect handling and disposal may lead to claims against the business and legal contraventions.	HIGH	Hazardous waste must be identified, stored, transported and disposed according to legal and other requirements.	0 Legal contraventions	Hazardous waste must be identified and disposed off at a registered hazardous waste site by a hazardous waste contractor.  Disposal certificates, waste manifest and weigh bridge receipts must be obtained, available in the file and sent to Environmental Dpt.	National Environmental Management Act 107 of 1998, Duty of Care Section 28; National Water Act 36 of 1998 section 19, National Environmental Management: Waste Act, Act 59 of 2008, section 16, S21, S24 (b), 25. - Hazardous Substance Act 15 of 1973 (S1,2), SANAS 10228: The identification and classification of Dangerous Goods for Transport National Road and Traffic Act, 93 of 1996 - REG 225; Occupational, Health and Safety Act 85 of 1993 S8, 10 Occupational Health and Safety – Hazardous Chemical Substances R1179 S1, S15(a-f), Asbestos regulations. National Environmental Management Act: Regulations For Admission Of Guilt Fines For Waste Management Offences; 24 July 2015; Gg 39024, Gn 635	Duration of project	Project Manager / Contractor				
5	Delivery of materials	Heavy vehicles	Oil contamination to natural environment. Potential of hydrocarbon contamination of ground due to spillage or leaks	HIGH	To prevent or minimise pollution incidents resulting from delivery of materials from heavy vehicles	0 Legal Contraventions	Disposal certificates, waste manifest and weigh bridge receipts must be obtained, available in the file and sent to Environmental Dpt.	National Roads Act, National Water Act (Act 36 of 1998) GN R704 of 1999-06-04:	Duration of project	Project Manager / Contractor				
6	Redundant equipments	Disposal of redundant equipments	Inappropriate management of underrated equipments could result to legal contravention (illegal dumping)	MEDIUM	Comply with legal & other requirements on the disposal of waste	100% Compliance according to legal and other Eskom requirements	To follow Tx Asset Management / Disposal process	Occupational Health and Safety – Hazardous Chemical Substances R1179 S1, S15(a-f), Asbestos regulations. National Environmental Management Act: Regulations For Admission Of Guilt Fines For Waste Management Offences; 24 July 2015; Gg 39024, Gn 635	Duration of project	Project Manager / Contractor				
7	Electrical Works	Rubbles, cables and steel generated during electrical works	Proper disposal & storage of Rubbles, Steel and cable off-cuts	MEDIUM	All waste to be managed in an environmentally sound manner	0 Legal Contraventions	Adequate waste facilities to be available on site to store waste material.	CA 24, S32; NEMA S2, S28, S35, S31; NEMA REG R385; ECA S19, S19A, S20, S20(9), S31A; ECA:AA (EC AMENDMENT ACT 2003); NWA, S1, S19; HAZACT, OHS Act (Act 85 of 1993)	Duration of project	Project Manager / Contractor				

8	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.	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.	OHS Act (Act 85 of 1993)  NEM: Waste Management Act	Duration of project	Project Manager / Contractor				
9	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	Record and report all SHE incidents within 24 hours to Project Manager / BU Env Dept	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) Environmental Incident Management Procedure	Duration of project	Project Manager / Contractor				
10	Final Inspection	Site Inspections	If a final site inspection is not conducted it may lead to uncorrected or unmitigated pollution incidents or damages to property which occurred during project execution.	LOW	To ensure the site is cleared and rehabilitated as per original condition and legal and other requirements.	Before project handover to the NCG	By ensuring compliance to project EMP and stipulated legal and other requirements.		Duration of project	Project Manager / Contractor				

#### IMPORTANT NOTES

Compliance obligations: Ensure all legal and other requirements are complied with for the project duration

#### Transmission Project Manager

Name & Surname

Nthuseng Dlamini

Signature

Date

05/0/2020

#### Grid Environmental Manager

Name & Surname: Keketso Mbete

Signature

Date

Oct 2020

#### CONTRACTORS DETAILS

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

SIGNATURE

DATE

CONTACT DETAILS

ESKOM PROJECT MANAGER/ SITE REPRESENTATIVE (NAME)

SIGNATURE

DATE

#### Effectiveness Criteria

\* **Fully effective** : Nothing more to be done except review and monitor the existing controls. Controls are well designed for the risk, are largely preventive and address the root causes and management believes that they are effective and reliable at all times. Reactive controls only support preventive controls

\* **Partially effective**: Most controls are designed correctly and are in place and effective. Some more work to be done to improve operating effectiveness or management has doubts about operational effectiveness and reliability

\* **Ineffective**: While the design of controls may be largely correct in that they treat most of the root causes of the risk, they are not currently very effective. There may be an over-reliance on reactive controls or  
Some of the controls do not seem correctly designed in that they do not treat root causes, those that are correctly designed are operating effectively