



CONSTRUCTION ENVIRONMENTAL AUDIT CHECKLIST

Template Identifier	240-43921898	3
Document Identifier	WFN/ILD - 4.5.5003	0
Authorisation Date	22-Nov-12	
Review Date	01-Nov-15	

Environmental Policy

Environmental Management Plan (EMP) and Environmental Authorisation (EA) Training/Awareness

1.	Has EA_EMP been communicated to an agent, sub-contractor, employee or any person rendering a service to the holder of the authorisation? This includes the Eskom SHEQ Policy and must be displayed.	Y. Policy on display.						
----	---	-----------------------	--	--	--	--	--	--

Planning - Environmental Aspects

Working Areas

	Have construction activities remained within the designated working areas?	Y						
2.	Inform the contractor about the no go areas/work restrictions i.e. sensitive vegetation/species and watercourses etc.							
3.	Is the housekeeping done neatly i.e. stockpiling of materials & equipment's etc.	Y						
4.	Are vehicles parked in their demarcated parking areas?	Y						
5.	Are working areas well defined with a	Y						



CONSTRUCTION ENVIRONMENTAL AUDIT CHECKLIST

Template Identifier	240-43921898	3
Document Identifier	WFM/LO - 4.5.5/003	0
Authorisation Date	22-Nov-12	
Review Date	01-Nov-15	

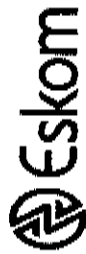
	fence or danger tape, in case of powerline, the servitude width 18m for 11 - 22kV and 45m for 132kV			
Property Access and Camp Establishment				
6.	Was permission obtained from the property owners before construction commence?	Y. Eskom servitude.		1
7.	Do the property owners have unrestricted access to their property?	Y.		1
8.	Are all access roads and camp establishment created with the assistance of ECO /Botanist /Freshwater Specialist or Site Engineer? If applicable	Y & Land owners where no access exist.		1
9.	Were entrance gates, walls, paths, roads and fence rehabilitated satisfactorily as per EA-EMP conditions i.e. landowners	To be assessed closer towards end of construction.		1
Vegetation Management				
10.	Are applicable permits available for indigenous vegetation clearance, cutting, disturbing, damaging or trimming of protected/endangered trees and monumental trees as per	N/A.		N/A



CONSTRUCTION ENVIRONMENTAL AUDIT CHECKLIST

Template Identifier	240-43921898	3
Document Identifier	WFM/LD - 4.5.5003	0
Authorisation Date	22-Nov-12	
Review Date	01-Nov-15	

applicable SAHRA and City Bylaws acts?				
Is the servitude or working area cleared of alien vegetation as per 32-247 Standard for Bush Clearance and maintenance within overhead Powerline servitude procedure i.e. firebreak	11.	Y.		1
Have all bush clearing and herbicide methods been undertaken under the supervision of a registered Pest Control Officer (PCO) i.e. produce valid letter from DAFF	12.	No herbicides applied		1
Clearance of vegetation in Critical Biodiversity Areas (CBA) must be done with an approved method statement by the ECO and or specialist recommendation as per EA i.e. site, area, height and timing	13.	N/A		1
Spillages				
Is there a stock of adequate oil spill remediation kit i.e. oil spill kit	14.	Y.		1



CONSTRUCTION ENVIRONMENTAL AUDIT CHECKLIST

Template Identifier	240-43921898	3
Document Identifier	WFM/LD - 4.5.5903	0
Authorisation Date	22-Nov-12	
Review Date	01-Nov-15	

15.	Have any spill/leak occurred on site i.e. oil, chemical, diesel, paint, sewer and waste water. Are the spills/leaks visible from construction site	N			1
16.	Have the spills been managed according to Western Cape Operating Unit Oil Spill Management Instruction reference no. 240-79588150.	N/A			N/A
Natural Heritage Resources					
17.	Were there any tribal graves, archaeological and paleontological sites identified before or during the construction activities?	N			1
18.	If yes, was construction stopped and the ECO contacted immediately?	N/A			N/A
19.	Was the Heritage Resource Agency or a Heritage Specialist contacted immediately?	N/A			N/A
Portable Toilet/Sanitation					
20.	Are there sufficient portable toilets i.e. 1:8 - 10 people and within walking distance	4	Three		1
21.	Portable toilets to be serviced weekly i.e. clean, smell good, toilet roll &	1	3/3/2015	Slip #: 144769	1



CONSTRUCTION ENVIRONMENTAL AUDIT CHECKLIST

Template Identifier	240-43921898	3
Document Identifier	WFM/LD - 4.5.5/003	0
Authorisation Date	22-Nov-12	
Review Date	01-Nov-15	

functional at all times. Services receipts available			
Sanitation and ablution facilities should not result in an impact on the environment? Sewage spillage etc.	N		

Integrated Waste Management

23. Is there an integrated waste management system in place i.e. intervals for waste disposal, bins labelled accordingly, proper waste storage and tightly contained, waste separation and recycling etc.	Y	General waste to be collected today by municipality.	
24. Are there sufficient waste bins on site?	Y		
25. Was litter noted during site inspection?	N		
26. Waste Manifest, Safe disposal certificate from the landfill site and Letter of agreement from the Municipality to comply with Waste General Notice (GN) No. 435 of 2011, Annexure 1 & 2. All other provisions of NEM:WA to be complied with if	Y		



CONSTRUCTION ENVIRONMENTAL AUDIT CHECKLIST

Template Identifier	240-43921698	3
Document Identifier	WFM/ID - 4.5.5/003	0
Authorisation Date	22-Nov-12	
Review Date	01-Nov-15	

	applicable.			
27.	Are the hazardous and non-hazardous products (paints, paste, chemicals etc.) labelled and have Material Safety Data Sheet (MSDS)?	Y. clearly labelled.		/
	Additional Environmental Aspects			
28.	Are there trained fire fighter and adequate fire-fighting equipment in appropriate places i.e. valid fire extinguisher	Y		/
29.	Are there effective dust control (if necessary) measures in place.	Not necessary		/
30.	Are there noise control (if necessary) measures in place.	N/A.		/
31.	Are there any erosion control (if necessary) measures in place?	Not an issue		/
32.	Are there top soil management in place i.e. separation of top soil vs. sub-soil, backfilling and levelling (if necessary)	Backfilled.		/
33.	Is there any impact on the water resource - wetland, stormwater drain, river, stream, lake, dam and riparian	N. Conformance to GA.		/



CONSTRUCTION ENVIRONMENTAL AUDIT CHECKLIST

Template Identifier	240-43921898	3
Document Identifier	WFM/ILD - 4.5.5/003	0
Authorisation Date	22-Nov-12	
Review Date	01-Nov-15	

	vegetation?			
Implementation and Operation - Resources, Roles, Responsibility and Authority				
	Have environmental Roles and Responsibilities been assigned to relevant personnel? One (1) person to be appointed per team?	Y.		1
Communication				
35.	Has the Environmental Emergency Preparedness and Response (EEMR) procedure (WPC020) being communicated to everyone on site?	Y. During EEM training.		1
36.	Have the non-conformance report (NCR), Incidents and any other deviations being communicated to the project team?	Y. 5/3/2015.		1
37.	Has the contractor conducted weekly environmental awareness/toolbox sessions? Keep a signed attendance register.	Y. 26/2/2015 11/3/2015, 23/2/2015, 11/3/2015: Oil spills 5/3/2015: NCR411.		1
38.	Have the relevant aspects of the Eskom procedures and instruction been communicated?	Y.		1
Documentation - Control of Documents				
39.	Are there Eskom Procedures on file	Y		1



CONSTRUCTION ENVIRONMENTAL AUDIT CHECKLIST

Template Identifier	240-43921898	3
Document Identifier	WFM/LD - 4.5.5/003	0
Authorisation Date	22-Nov-12	
Review Date	01-Nov-15	

such as Waste Standards, Bush Clearing procedure and Oil Spill Instruction etc.?				
Environmental Emergency Preparedness and Response procedure (EPR)				
40. Are the emergency numbers available and up-to-date to all construction personnel?	Y.			
41. Is there an Environmental Emergency preparedness Procedure to deal with environment-related incidents (e.g. fires, oil spillages, snakes bites, bee stings etc.? Eskom EPR procedure to be available and displayed on site.	Conform to Eskom EEP.			
Checking - Non Conformity and Corrective Action Plan				
42. Has there been any deviation from the requirements of EA-EMP, Permit, License, RoD and any other conditions or agreement?	N.			
43. If any deviations, have they been reported to Environmental Officer/Clerk of Works/Project Coordinator/Site Manager within 24 Hours e.g. oil & diesel spillages etc.	N/A			N/A
44. Have the action plans been developed	N/A			N/A



CONSTRUCTION ENVIRONMENTAL AUDIT CHECKLIST

Template Identifier	240-43921898	3
Document Identifier	WFM/ILD - 4.5.5003	0
Authorisation Date	22-Nov-12	
Review Date	01-Nov-15	

	and incidents addressed adequately? Shall not exceed more than 24 Hours depending on the incident or action?			
45.	Have all the Non Conformances Reports been addressed and closed e.g. complaints, incidents, pollution etc? If applicable	N. Auditing feedback verification on two actions on NCR list.	Mavis to provide feedback.	1
Control of Records				
46.	Does the site have Environmental File with EA_EMP and Training records, Incidents Flash Reports, Permits, Licences, ROD, Waste Manifest, Letter of consent, NCR, Inventory of Incidents, Complaints Register, Action Plans and Audit Reports? To be produced when required at all times.	Y		1
Internal Audits				
47.	Has the contractor performed a self-audit and addressed all deviations? At least one or more in two weeks?	Y	18/2/2015	1

Refer to e-mail dated 19/3/2015.



CONSTRUCTION ENVIRONMENTAL AUDIT CHECKLIST

Template Identifier	240-43921898	3
Document Identifier	WFM/LD - 4.5.5003	0
Authorisation Date	22-Nov-12	
Review Date	01-Nov-15	

PROJECT DETAILS

Name of the Project : Powerline or Substation	Mooresburg-Ugulei	Name of the Auditor	M. Hendriks
Name of the Construction Representative	Line: Mew 58-113	Date	12/03/2015
Signature	Chris Matthee	Signature	<i>[Signature]</i>

COMPLIANCE STATUS

Number of Compliance	47
Number of Non-Conformance	0
Compliance Rating:	X
Risk of non-compliant	
Non-Compliant	
Percentage Compliance Score	100%

From:

Madre Hendrikse

Sent:

19 March 2015 10:37

To:

Morris Mgweba; Sydney Carse

Cc:

Chns Mathee

Subject:

RE: Moorreesburg-Vyelei_NCR44

Morning Morris

Here is the feedback I received during the audit conducted on 12 March 2015. Items in red is still outstanding. If you could provide feedback on those it will be appreciated.

Preventative actions:

Sub-Standard Acts

Failure to secure/ make safe –

1. Either the site supervisor or the site environmental supervisor or whomever is designated should inspect all equipment/ machine/ vehicle on a daily basis for any oil leaks prior to its use. Pre- and Post-Trip Vehicle inspection checklist used for vehicles. The Daily inspection checklist for Truck Mounted Cranes to be used for all other machinery and sub-contractor machinery i.e. plant on a daily basis, whether parked or to be used on site for the day.
2. The site supervisor and site environmental supervisor should ensure, on a daily basis, that drip trays are placed underneath all equipment/ machine/ vehicle which has a risk of causing an oil spill. Unmanned equipment/ machine/ vehicle shall not be standing/ parked without a drip tray. Under the "Remarks" section at the bottom of the inspection checklist insert Drip Trays and tick if it has been checked per vehicle/ plant on a daily basis.
1. Refresher training to all staff on the Oil Spill Management Instruction (240-79588150). Attendance register available for training on 11/03/2015.

Sub Standard Conditions

Equipment failure

1. Daily checks/ inspection on all equipment/ machine/ vehicle (whether in use or parked) by the site supervisor/ site environmental officer and operator. If the operator is not on site, the responsibility for checking remains with the site supervisor and/ site environmental officer. Pre- and Post-Trip Vehicle inspection checklist used for vehicles. The Daily inspection checklist for Truck Mounted Cranes to be used for all other machinery and sub-contractor machinery i.e. plant on a daily basis for parked as well as plant in use. Site Environmental Officer audit reports.

Basic Causes - Job Factors:

Inadequate Leadership

Inadequate supervision over task

Inadequate contractors control

1. Oil spills should be included on the daily risk assessment. Prevention and mitigation actions (i.e. daily checks, placement of drip trays, clean-up and reporting) shall be discussed daily prior to undertaking work. Daily risk assessment to be confirmed. Toolbox talk conducted for NCR44 on 5/03/2015.
2. The Contracts Manager for MEW shall conduct an environmental awareness session with the project site supervisor, construction manager and site environmental officer. The session shall be aimed at their responsibilities i.e. environmental management (the site supervisor and construction manager remains responsible for environmental management on site. Sub-contractors are an extension of the principal contractor. Therefore, sub-contractors shall comply with all Eskom environmental requirements as applicable to the project. The Principal contractor shall ensure that his sub-contractors comply). Attendance register and awareness training material to be provided.

Additional actions:

1. MEW to indicate method of clean-up i.e. ChemCap or contaminated soil placed in disposal bags. ChemCap applied.
2. MEW to send waste manifest and safety disposal certificate from Vissershok Waste Disposal Facility (if contaminated soil disposed of). Not applicable since ChemCap was used.

Kind regards

Madré Hendrikse
 Environmental and Quality Officer
 Compliance and Enforcement
 Environmental Management
 Environment and Land Development
 Distribution Western Cape Operating Unit
 Brackenfell PT&M Building
 PO Box 222 Brackenfell 7561
 T +27 (0)21 980 3675
 M +27 (0)74 580 9127
 E-mail madre.hendrikse@eskom.co.za



From: Morris Mgweba
Sent: 18 March 2015 07:11 AM
To: Madré Hendrikse; Sydney Carse
Cc: Chris Mathee
Subject: RE: Moorreesburg-Vyvel NCR44

Madré,

Can you please confirm if NCR 44 is been closed.

Thank you

From: Madré Hendrikse
Sent: 04 March 2015 10:10 AM
To: Morris Mgweba; Sydney Carse
Cc: Chris Mathee
Subject: Moorreesburg-Vyvel NCR44
Importance: High

Good morning

Kindly find attached NCR issued to MEW as indicated in previous e-mails, for failing to prevent and mitigate oil spills at Moorreesburg-Vyvel Line project as per EMP and Oil Spill Instruction requirements.

The root causes and safety measures would be the same as outlined below for the oil spill incident. Proof/evidence of satisfactory completion of the preventative measures are highlighted in orange. I will verify closure at my next audit scheduled and accepted on 12 March 2015.

If the actions are not completed I may not close the NCR or incident on SAP.

Preventative actions:

Sub-Standard Acts