



**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	

NO	ENVIRONMENTAL ASPECTS	CONFORMANCE/ NON-CONFORMANCE/COMMENTS	CORRECTIVE ACTION	CONDITION/ CLAUSE	% RATING
<b>Environmental Policy</b>					
<b>Environmental Management Plan (EMP) and Environmental Authorisation (EA) Training/Awareness</b>					
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. - HYPOWER TRAINED ON 9/06/2015. - TESSI (ESKOM SAFETY OFFICER) TRAINED ON 8/06/2015. - ACTOM DX TRANSFORMERS TRAINED ON 8/06/2015. - NEW SITE PERSONEL TRAINED ON 1 & 5/06/2015 AND 12, 18 & 27/05/2015.			100
<b>Planning - Environmental Aspects</b>					
<b>Working Areas</b>					
2.	Have construction activities remained within the designated working areas? Inform the contractor about the no go areas/work restrictions i.e. sensitive vegetation/species and watercourses etc.	Y. WITHIN THE FENCED SUBSTATION AREA.			100
3.	Is the housekeeping done neatly i.e. stockpiling of materials & equipment's etc.	Y. MAJORITY OF THE EQUIPMENT HAS BEEN INSTALLED. LIMITED AMOUNT LEFT IN STORAGE AREA.			100
4.	Are vehicles parked in their	Y.			100



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	demarcated parking areas?				
5.	Are working areas well defined with a fence or danger tape, in case of powerline, the servitude width 18m for 11 – 22kV and 45m for 132kV	Y. TEMPORARY FENCE AROUND SUBSTATION.			100
<b>Property Access and Camp Establishment</b>					
6.	Was permission obtained from the property owners before construction commence?	Y. ESKOM PROPERTY			100
7.	Do the property owners have unrestricted access to their property?	Y.			100
8.	Are all access roads and camp establishment created with the assistance of ECO /Botanist /Freshwater Specialist or Site Engineer? If applicable	Y. SITE LAYOUT APPROVED BY ECO. AS PER SUBSTATION DRAWING.			100
9.	Were entrance gates, walls, paths, roads and fence rehabilitated satisfactorily as per EA-EMP conditions i.e. landowners	NO NEED FOR REHABILITATION YET. CONSTRUCTION UNDERWAY. NO ISSUES.			100
<b>Vegetation Management</b>					



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10.	Are applicable permits available for indigenous vegetation clearance, cutting, disturbing, damaging or trimming of protected/endangered trees and monumental trees as per applicable SAHRA and City Bylaws acts?	N/A NO INDIGENOUS VEGETATION WAS PRESENT ON SITE PRIOR TO CONSTRUCTION. THE LAND WAS USED FOR WHEAT FARMING.			N/A
11.	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	Y.			100
12.	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	N/A NO HERBICIDES WERE USED DURING SITE CLEARANCE.			N/A
13.	Clearance of vegetation in Critical Biodiversity Areas (CBA) must be done with an approved method statement by the ECO and or	N/A NOT A CBA			N/A



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	specialist recommendation as per EA i.e. site, area, height and timing				
<b>Spillages</b>					
14.	Is there a stock of adequate oil spill remediation kit i.e. oil spill kit	Y. PEATZORD, DISPOSAL BAGS, BROOM, GOGGLES, DUST MASK, ABSORBENT BAGS AND SHOVEL PRESENT.			100
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	Y. OIL DROPS AND STAINS ARE VISIBLE AROUND AND UNDERNEATH THE NEC NER AUXILIRY TRANSFORMER.  ACTOM DISTRIBUTION TRANSFORMERS WERE WORKING ON THE NEC AND CLEANED THE MAJORITY OF THE OIL WITH CLOTH AND OIL RAGS.	A NON-CONFORMANCE REPORT (WCOU NCR86) WAS ISSUED TO ACTOM FOR NOT REPORTING THE MINOR OIL SPILL AND NOT CLEANING THE SPILL SATISFACTORILY.		100 (WESTLAND CIVILS NOT RESPONSIBLE FOR THE SPILL)
16.	Have the spills been managed according to Western Cape Operating Unit Oil Spill Management Instruction reference no. 240-79588150.	N.	A NON-CONFORMANCE REPORT WAS ISSUED TO ACTOM FOR NOT REPORTING THE MINOR OIL SPILL AND NOT CLEANING THE SPILL SATISFACTORILY.		100 (WESTLAND CIVILS NOT RESPONSIBLE FOR THE SPILL)



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<b>Natural Heritage Resources</b>					
17.	Were there any tribal graves, archaeological and paleontological sites identified before or during the construction activities?	N.			100
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
<b>Portable Toilet/Sanitation</b>					
20.	Are there sufficient portable toilets i.e. 1:8 - 10 people and within walking distance	Y. Three chemical toilets.			100
21.	Portable toilets to be serviced weekly i.e. clean, smell good, toilet roll & functional at all times. Services receipts available	Y. SERVICE DATES: MAY 7, 15, 21 & 29 JUNE 4 & 8 RECEIPTS ON FILE			100
22.	Sanitation and ablution facilities should not result in an impact on the environment? Sewage spillage etc.	NO SPILLAGES OR IMPACTS. TOILETS SECURED.			100
<b>Integrated Waste Management</b>					
23.	Is there an integrated waste	Y.			100



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	management system in place .i.e. intervals for waste disposal, bins labelled accordingly, proper waste storage and tightly contained, waste separation and recycling etc.	BINS ARE LABELLED, SECURED AND WASTE DISPOSED WHEN BINS ARE FULL. WASTE ARE TAKEN TO MALMESBURY WASTE DISPOSAL FACILITY WHERE RECYCLING TAKES PLACE.			
24	Are there sufficient waste bins on site?	Y	REMOVE THE SCRAP WOOD AND WASTE FROM THE FENCED STORAGE AREA ON SITE. THERE IS A RISK OF WASTE BLOWING OUT WHEN THE WIND COMES UP.  HANSIE INDICATED THAT HE HAS REQUESTED COUPONS TO BE BOUGHT FROM THE MUNICIPALITY SO THE WASTE ON SITE CAN BE REMOVED.		100
25.	Was litter noted during site inspection?	N.			100
26.	Waste Manifest, Safe disposal certificate from the landfill site and Letter of agreement from the Municipality to comply with Waste	Y. MALMESBURY WASTE DISPOSAL COUPON NUMBERS: - 32046 FOR DISPOSAL ON 8/052015			100



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	General Notice (GN) No. 435 of 2011, Annexure 1 & 2. All other provisions of NEM: WA to be complied with if applicable.	- 62565 FOR DISPOSAL ON 8/052015			
27.	Are the hazardous and non-hazardous products (paints, paste, chemicals etc.) labelled and have Material Safety Data Sheet (MSDS)?	<p>Y.</p> <p>ALL PRODUCTS LABELLED IN THE FLAMMABLE AND HAZARDOUS STORAGE AREA.</p> <p>SAFETY DATA SHEETS AVAILABLE FOR ALL PRODUCTS, EXCEPT FOR OXYACETYLENE.</p> <p>PRODUCTS ON SITE INCLUDE PETROL, DIESEL, PAINT AND INDY OIL.</p> <p>ADENCO HAS ACETYLENE GAS AND OXYGEN CYLINDER ON SITE FOR COPPER BRAISING</p>	PLACE ACETYLENE GAS SAFETY DATA SHEET IN THE ADENCO ENVIRONMENTAL AND SAFETY FILES		95
<b>Additional Environmental Aspects</b>					
28.	Are there trained fire fighter and adequate fire-fighting equipment in appropriate places i.e. valid fire extinguisher	Y. GERALDO LATEGAN APPOINTED FIRE FIGHTER.			100



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29.	Are there effective dust control (if necessary) measures in place.	DUST IS NOT AN ISSUE AT THIS STAGE OF CONSTRUCTION.  DUST MASKS ARE AVAILABLE IF THE NEED ARISES.			100
30.	Are there noise control (if necessary) measures in place.	EAR PLUGS ARE USED WHEN WORKING WITH COMPACTORS.			100
31.	Are there any erosion control (if necessary) measures in place?	NO EROSION PRESENT ON SITE.			100
32.	Are there top soil management in place i.e. separation of top soil vs. sub-soil, backfilling and levelling (if necessary)	Y. TOPSOIL IS STOCKPILED SEPARATELY.			100
33.	Is there any impact on the water resource - wetland, stormwater drain, river, stream, lake, dam and riparian vegetation?	N.			100
<b>Implementation and Operation - Resources, Roles, Responsibility and Authority</b>					
34.	Have environmental Roles and Responsibilities been assigned to relevant personnel? One (1) person to be appointed per team?	Y. HANSIE CAROLISSEN HAS BEEN APPOINTED AS THE SITE ENVIRONMENTAL OFFICER FOR WESTLAND CIVILS.	ADENCO TO SEND THE TWO APPOINTED SEO LETTERS TO THE ECO AS IT IS NOT ON FILE.		80
<b>Communication</b>					



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35.	Has the Environmental Emergency Preparedness and Response (EPR) procedure (WPC020) being communicated to everyone on site?	Y. COMMUNICATED DURING EMP TRAINING.			100
36.	Have the non-conformance report (NCR), Incidents and any other deviations being communicated to the project team?	Y. A NCR WAS ISSUED TO ACTOM FOR THE OIL INCIDNET ON SITE.  THIS REPORT WITH ACTION ITEMS WILL BE SEND TO ADENCO FOR COMMUNICATION AND ACTION ON SITE.			100
37.	Has the contractor conducted weekly environmental awareness/toolbox sessions? Keep a signed attendance register.	Y. DAILY TOOLBOX TALKS INCLUDES ASPECTS ON THE ENVIRONMENT.			100
38.	Have the relevant aspects of the Eskom procedures and instruction been communicated?	Y. DURING EMP TRAINING.			100
<b>Documentation - Control of Documents</b>					
39.	Are there Eskom Procedures on file such as Waste Standards, Bush Clearing procedure and Oil Spill	Y.			100



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	Instruction etc.?				
<b>Environmental Emergency Preparedness and Response procedure (EPR)</b>					
40.	Are the emergency numbers available and up-to-date to all construction personnel?	Y. ON NOTICE BOARD IN THE SITE OFFICE AS WELL AS AT THE ENTERANCE TO SITE.			100
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.	Y. WESTLAND HAS A PROCEDURE AVAILABLE AND DISPLAYED ON THE NOTICE BOARD.			100
<b>Checking - Non Conformity and Corrective Action Plan</b>					
42.	Has there been any deviation from the requirements of EA-EMP, Permit, License, RoD and any other conditions or agreement?	Y. THE ACTOM DISTRIBUTION TRANSFORMERS INCIDENT WAS NOT REPORTED OR CLEANED PROPERLY AS PER ESKOM REQUIREMENTS.			100 (WESTLAND CIVILS NOT RESPONSIBLE FOR THE SPILL)
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. NCR WAS ISSUED TO ACTOM.			100 (WESTLAND CIVILS NOT RESPONSIBLE FOR THE SPILL)



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44.	Have the action plans been developed and incidents addressed adequately? Shall not exceed more than 24 Hours depending on the incident or action?	N. NCR WAS ISSUED TO ACTOM.			100 (WESTLAND CIVILS NOT RESPONSIBLE FOR THE SPILL)
45.	Have all the Non Conformances Reports been addressed and closed e.g. complaints, incidents, pollution etc? If applicable	N. NCR TO BE CLOSED OFF.			100 (WESTLAND CIVILS NOT RESPONSIBLE FOR THE SPILL)
<b>Control of Records</b>					
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.	FILE THE MAY 2015 ECO AUDIT REPORT AND CLOSE ACTION ITEMS.		80
<b>Internal Audits</b>					
47.	Has the contractor performed a self-audit and addressed all deviations?	Y. MAY 3, 8,15, 22 & 29 JUNE 5			100

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	Atleast one or more in two weeks?				

**PROJECT DETAILS**

<b>Name of the Project : Powerline or Substation</b>	VYEVLEI SUBSTATION	<b>Name of the Auditor</b>	MADRE HENDRIKSE
<b>Name of the Construction Representative</b>	HANSIE CAROLISSEN (WESTLAND CIVILS)	<b>Date</b>	9 JUNE 2015
<b>Signature</b>	SIGNED	<b>Signature</b>	SIGNED

ACTIVITIES ON SITE:

- CRUSHER DUST MIXING FOR LAYING OF KERBS
- SETTING AND LAYING OF KERBS
- BACKFILLING OF PLATFORM
- COIL TO BE FITTED TO THE POWER TRANSFORMER BUT THE STUDS ARE NOT ON SITE. ACTOM TO PROVIDE STUDS.
- STEEL ASSEMBLY

**COMPLIANCE STATUS**

<b>Number of Compliance</b>		39.55
<b>Number of Non-Conformance</b>		2.45
<b>Compliance Rating:</b>	<b>Compliant</b>	X
	<b>Risk of non-compliant</b>	
	<b>Non-Compliant</b>	
<b>Percentage Compliance Score</b>		39.55/42 = <b>94%</b>

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**NOTES:**

- NO DRIP TRAY UNDERNEATH THE ADENCO GENERATOR IN THE STORAGE CONTAINER – EMPLOYEES WAS REQUESTED TO PLACE A DRIP TRAY UNDERNEATH.
- NO DRIP TRAY UNDERNEATH THE ADENCO CHERRY PICKER ON SITE – EMPLOYEE PLACED TRAY UNDERNEATH AFTER IT WAS REQUESTED. THE KEYS FOR THE TRUCK WAS NOT PRESENT ON SITE AND THEREFORE NOT IN USE.
- ACTOM DISTRIBUTION TRANSFORMERS HAD AN OIL SPILL ON SITE ON 8 JUNE 2015. TWO EMPLOYEES, FAIZEL AND ERNEST, WAS BUSY ON THE NEC NER (SERIAL NUMBER 62580/02/002). A DRIP TRAY WAS PLACED, BUT THE OIL SPILLED OUTSIDE THE TRAY. THEY CLEANED THE MAJORITY OF THE OIL WITH CLOTHS AND RAGS. MINOR OIL STAINS ARE STILL VISIBLE ON PLINTHS AND THE SURROUNDING SOIL. NO PCB IN THE OIL.

ACTOM TO BE ISSUED WITH A NON-CONFORMANCE REPORT TO IMPLEMENT CORRECTIVE AND PREVENTATIVE ACTIONS.

- WHEN ARE CONTROL PLANT/ ED COMING TO SITE?