



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          |   |

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. | <p>New SHEQ policy poster displayed.<br/>         N. Robson did EMP training 8/10/2015 @ 3/12/2014</p> |  |  | 1 |
|----|---|--|--|--|---|

Planning - Environmental Aspects

Working Areas

|    |  |                  |  |  |   |
|----|--|------------------|--|--|---|
| 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                |  |  | 1 |
| 3. | Is the housekeeping done neatly i.e. stockpiling of materials & equipment's etc.   | Y                |  |  | 1 |
| 4. | Are vehicles parked in their demarcated parking areas?   | Y                |  |  | 1 |
| 5. | Are working areas well defined with a  | Y, Excavations & |  |  |   |



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|   |   |   |  |   |
|---|---|---|--|---|
|   | fence or danger tape, in case of powerline, the servitude width 18m for 11 - 22kV and 45m for 132kV   | pdes are barricaded.                    |  | / |
| <b>Property Access and Camp Establishment</b> |   |   |  |   |
| 6.  | Was permission obtained from the property owners before construction commence?  | Y. Eskom servitude & written agreements |  | / |
| 7.  | Do the property owners have unrestricted access to their property?  | Y.                                      |  | / |
| 8.  | Are all access roads and camp establishment created with the assistance of ECO /Botanist /Freshwater Specialist or Site Engineer? If applicable                           | Y & farmer.                             |  | / |
| 9.  | Were entrance gates, walls, paths, roads and fence rehabilitated satisfactorily as per EA-EMP conditions i.e. landowners  | No complaints. Will check after constr. |  | / |
| <b>Vegetation Management</b>                  |   |   |  |   |
| 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.                                    |  | / |



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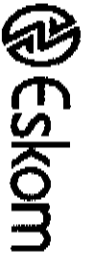
|                  |  |   |  |   |
|------------------|--|---|--|---|
|                  | applicable SAHRA and City Bylaws acts?   |   |  |   |
| 11.              | Is the servitude or working area cleared of alien vegetation as per 32-247 Standard for Bush Clearance and maintenance within overhead Powerline servitude procedure i.e. firebreak                  | No alien veg. Agricultural lands.                     |  | 1 |
| 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                                    | No bushclearing done.                                 |  | 1 |
| 13.              | 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 | N/A.  |  | 1 |
| <b>Spillages</b> |  |   |  |   |
| 14.              | Is there a stock of adequate oil spill remediation kit i.e. oil spill kit  | 4. Weekly bins<br>two on line &<br>two @ site office. |  | 1 |



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|-----------------------------------|--|--|--|--|--|
| 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  |  |  |  |
| 16.                               | Have the spills been managed according to Western Cape Operating Unit Oil Spill Management Instruction reference no. 240-79588150.                 | N/A  |  |  |  |
| <b>Natural Heritage Resources</b> |  |  |  |  |  |
| 17.                               | Were there any tribal graves, archaeological and paleontological sites identified before or during the construction activities?                    | N  |  |  |  |
| 18.                               | If yes, was construction stopped and the ECO contacted immediately?  | N/A  |  |  |  |
| 19.                               | Was the Heritage Resource Agency or a Heritage Specialist contacted immediately?   | N/A  |  |  |  |
| <b>Portable Toilet/Sanitation</b> |  |  |  |  |  |
| 20.                               | Are there sufficient portable toilets i.e. 1:8 - 10 people and within walking distance   | 4. 3 mobile units on site. Serviced 22/11/2015 by Boland Toilets |  |  |  |
| 21.                               | Portable toilets to be serviced weekly i.e. clean, smell good, toilet roll &   | 4. 26/11/2014, 4/12/2014, 12/12/2014, 22/11/2015, 14/1/2015      |  |  |  |



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| Template Identifier | 240-43921098     | 3         |
| Document Identifier | WFM/ID 4.5.51003 | 0         |
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|                                    |  |   |                      |   |
|------------------------------------|--|---|----------------------|---|
|                                    | functional at all times. Services receipts available   |   |                      |   |
|                                    | Sanitation and ablution facilities should not result in an impact on the environment? Sewage spillage etc.   | N   |                      | 1 |
| <b>Integrated Waste Management</b> |  |   |                      |   |
| 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.   | Waste rep = Price mngmt. Dispose waste when bins are full, < 2 months storage. No haz. waste  |                      | 1 |
| 24                                 | Are there sufficient waste bins on site?   | Y.  |                      | 1 |
| 25.                                | Was litter noted during site inspection?   | Removal bags @ positions.   | Removal bags (empty) | 1 |
| 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. General waste disposed @ visserstok on 17.12.2014. & 22/01/2015. manifest #: 0001185573 0001187014. Cases WUTW license # 12/9/11/129114/19. dated 23/08/2012 |                      | 1 |

Wellington WUTW license #: 12/9/11/129114/19 dated 23/08/2012.

Removed 14/12/2015



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|   |   |   |                   |  |
|---|---|---|-------------------|--|
|   | applicable.   |   |                   |  |
| 27.                                     | Are the hazardous and non-hazardous products (paints, paste, chemicals etc.) labelled and have Material Safety Data Sheet (MSDS)? | MSDS register with haz. substances dated 27/11/2014.              | MSDS discuss sed. |  |
| <b>Additional Environmental Aspects</b> |   |   |                   |  |
| 28.                                     | Are there trained fire fighter and adequate fire-fighting equipment in appropriate places i.e. valid fire extinguisher            | yes. Antonio Cook & Anwar Phillips appointed.                     |                   |  |
| 29.                                     | Are there effective dust control (if necessary) measures in place.  | Not issue on site.  |                   |  |
| 30.                                     | Are there noise control (if necessary) measures in place.   | No complaints   |                   |  |
| 31.                                     | Are there any erosion control (if necessary) measures in place?   | No issues.  |                   |  |
| 32.                                     | Are there top soil management in place i.e. separation of top soil vs. sub-soil, backfilling and levelling (if necessary)         | y. Separation & backfilled.                                       |                   |  |
| 33.                                     | Is there any impact on the water resource - wetland, stormwater drain, river, stream, lake, dam and riparian                      | Method Statement on file. No impacts on H <sub>2</sub> O courses. |                   |  |

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|---|---|---|---------------------------------|--|--|--|--|---|
| vegetation?   | Compliance to GA  |   |                                 |  |  |  |  |   |
| Implementation and Operation - Resources, Roles, Responsibility and Authority |   |   |                                 |  |  |  |  |   |
| 34.   | Have environmental Roles and Responsibilities been assigned to relevant personnel? One (1) person to be appointed per team? | Y. Dave on 01/05/14 & 30/07/2014 for Prince.  | made to send Eskom to req. RDA. |  |  |  |  | 1 |
| Communication   |   |   |                                 |  |  |  |  |   |
| 35.   | Has the Environmental Emergency Preparedness and Response (EEMR) procedure (WPC020) being communicated to everyone on site? | Y. During EMP training. Site has own EEMR dated 29/08/2014. F-C5-CC-033                       |                                 |  |  |  |  | 1 |
| 36.   | Have the non-performance report (NCR), Incidents and any other deviations being communicated to the project team?           | Y.  |                                 |  |  |  |  | 1 |
| 37.   | Has the contractor conducted weekly environmental awareness/toolbox sessions? Keep a signed attendance register.            | Y. Communications register on daily awareness topics. First safety, Health, Enviro & quality. |                                 |  |  |  |  | 1 |
| 38.   | Have the relevant aspects of the Eskom procedures and instruction been communicated?  | Y. During EMP training.   |                                 |  |  |  |  | 1 |
| Documentation - Control of Documents  |   |   |                                 |  |  |  |  |   |
| 39.   | Are there Eskom Procedures on file  | Y. See attached.  |                                 |  |  |  |  | 1 |



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|---|---|--|--|
| such as Waste Standards, Bush Cleaning procedure and Oil Spill 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. Eskom #'s as well. Fire Emergency drill conducted 21/01/2015 |  |  |
| 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. See 35.  |  |  |
| <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?   | 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.  |  |  |
| 44. Have the action plans been developed  |   |  |  |





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|---------------------------|--|----|---|--|--|---|
|                           | and incidents addressed adequately? Shall not exceed more than 24 Hours depending on the incident or action?   | Y  |   |  |  | 1 |
| 45.                       | Have all the Non Conformances Reports been addressed and closed e.g. complaints, incidents, pollution etc? If applicable   | Y. |   |  |  | 1 |
| <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. |   |  |  | 1 |
| <b>Internal Audits</b>    |  |    |   |  |  |   |
| 47.                       | Has the contractor performed a self-audit and addressed all deviations? Atleast one or more in two weeks?  | Y  | Monthly by Dave on 3/12/14 & 8/10/15. No outstanding issues. Monthly by |  |  | 1 |

Site rep/SEO.  
Daily inspection  
by site rep also  
includes enviro  
aspects.

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**CONSTRUCTION ENVIRONMENTAL AUDIT CHECKLIST**

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**PROJECT DETAILS**

|   |                                   |                     |                        |
|---|-----------------------------------|---------------------|------------------------|
| Name of the Project : Powerline or Substation | mas restburg-uyeneke i            |                     |                        |
| Name of the Construction Representative       | Line. Roshan 1-58.                |                     |                        |
| Signature                                     | Juan de Siqueira & Pierre Soubert | Name of the Auditor | M. Hendriks            |
|   |                                   | Date                | 22/01/2015 & 4/02/2015 |
|   |                                   | Signature           |                        |

**COMPLIANCE STATUS**

|                             |             |
|-----------------------------|-------------|
| Number of Compliance        | 147         |
| Number of Non-Conformance   | 0           |
| Compliance Rating:          | Compliant X |
| Risk of non-compliant       |             |
| Non-Compliant               |             |
| Percentage Compliance Score | 100%        |

**Checklist of Documents Requirements for Construction Site**

|    |  |          |          |  |   |
|----|--|----------|----------|--|---|
| 1  | Environmental Authorisation                                  |          |          |  | ✓ |
| 2  | Environmental Management Plan                                |          |          |  | ✓ |
| 3  | Permit/Licence/ROD e.g. Water or vegetation permits          |          | GA       |  | ✓ |
| 4  | Construction Environmental Audit Checklist                   |          |          |  |   |
| 5  | Agreement letters:   |          |          |  |   |
|    | waste  |          |          |  |   |
|    | sewage   |          |          |  |   |
|    | drinking water   |          |          |  |   |
|    | construction water   |          |          |  |   |
|    | laydown areas  |          |          |  | ✓ |
|    | parking areas  |          |          |  |   |
|    | camp site  |          |          |  | ✓ |
|    | accommodation  |          |          |  |   |
|    | land owner   |          |          |  | ✓ |
|    | Environmental, Occupational Health and Safety Incident       |          |          |  |   |
| 6  | Management Procedure - 32 - 95                               | March 19 |          |  | ✓ |
|    | VEGETATION MANAGEMENT AND MAINTENANCE WITHIN                 |          |          |  |   |
| 7  | ESKOM LAND SERVITUDES AND RIGHTS OF WAY - 32 - 247           | Jan 19   |          |  | ✓ |
|    | Access to Farms (including strategy on dealing with Game     |          |          |  |   |
| 8  | Farms)- 34 - 190   | March 10 |          |  | ✓ |
|    | Safety, Health, Environment and Quality (SHEQ) Policy - 32 - |          |          |  |   |
| 9  | 9727   | Aug 14   | Replaced |  | ✓ |
|    | Environmental Emergency Preparedness and Response -          |          |          |  |   |
| 10 | WPC020   | Nov 16   |          |  | ✓ |
|    | Land and biodiversity standard - 32 - 815                    |          |          |  |   |
| 11 | Land and biodiversity Policy - 32 - 736                      | Aug 14   |          |  | ✓ |
|    | Management of Protected and Indigenous Vegetation -          |          |          |  |   |
| 12 | WTB003   |          |          |  | ✓ |
|    | Eskom Dx Western Cape Operating Unit - Waste                 |          |          |  |   |
| 14 | Management Plan (WMP) - 2013 Rev 3                           |          |          |  | ✓ |
|    | Eskom Waste Management Standard - 32 - 245                   |          |          |  |   |
| 15 | Water Management Policy - 32 - 1163                          | 24/15    |          |  | ✓ |
|    | Environmental Complaints/Query Register - WPC-008            | 24/15    |          |  | ✓ |
| 17 | Oil Spill Management Instruction - 240-79588150              | May 17   |          |  | ✓ |
|    | Project Audit and EMP Training Schedule                      |          |          |  |   |
| 19 | Transportation of hazardous goods 240-79588146               |          |          |  | ✓ |
|    | Environmental Management Systems for distribution WCOU       |          |          |  |   |
| 20 | In Accordance with ISO14001 - 240-77313122                   |          |          |  | ✓ |
|    | Environmental training, awareness and competence             |          |          |  |   |
| 21 | procedure in Accordance with ISO14001 environmental          | Aug 17   |          |  | ✓ |
|    | Management Systems requirements - 240-83895653               |          |          |  |   |

oNEC  
 - Vissershoek  
 - Rodol rollers Drakenstein & Carens munits.  
 - Karsten letters ✓ 31/02/2015.  
 Tipitons

require to send latest Rev 2. ✓ Filled 4/02/2015

4/02/2014  
 4/02/2014

Appointments sent ✓ 4/02/2015  
 4/02/2014

Excavations: 4-58

Concrete base: 31, 42, 45, 58

Backfilling: 4-32.  
today.

Erection: 4-8.