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|  <p><b>MOTHEO</b><br/>CONSTRUCTION GROUP<br/>CONSTRUCTION • CIVILS • WATER • ELECTRICAL • ACADEMY</p> | <p><b>METHOD STATEMENT</b></p> <p><b>SPILLAGE<br/>MANAGEMENT</b></p> | Doc No :   | TP – EMS 013 |
|                                                                                                                                                                                        |                                                                      | Rev No :   | 00           |
|                                                                                                                                                                                        |                                                                      | Rev Date : | 30/11/2020   |

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| <b>CONTRACT NAME</b> | <b>CONSTRUCTION OF A 66KV OVERHEAD POWERLINE FROM WORCESTER INDUSTRIAL AREA TO TRANSHEX SUBSTATION</b> |
| <b>CONTRACT NO.</b>  | <b>16/3/3/B2/32/1021/23</b>                                                                            |
| <b>LOCATION</b>      | <b>WORCESTER</b>                                                                                       |
| <b>CLIENT</b>        | <b>BREEDE VALLEY MUNICIPALITY</b>                                                                      |
| <b>START DATE</b>    |                                                                                                        |

| Rev | Date | Prepared by | Designation | Checked by:<br>(Contractor's<br>Signature) | Approved by:<br>(Client<br>signature) | Description of<br>Modifications |
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**Approval:**

*Signatories to sign this page in full as proof of approval*

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## 1 PURPOSE

The purpose of this document is to describe the methodology to be followed at project for the management of spill incidents

## 2 SCOPE

The method statement is applicable to the construction works been carried out at the project for the duration of the contract.

## 3 REFERENCES

ISO14001:2015

## 4 ROLES AND RESPONSIBILITIES

Main tasks and associated responsibilities are as follows:

**Project/Site Manager** shall be responsible for overall construction activities inclusive of ensuring that all safety and environmental measures are implemented.

**Safety** officer shall ensure that all personnel involved in this activity are competent to perform the task and that the training provided is sufficient in that the trainee will respect the environment and safety rules.

**Foreman/Supervisor** shall be supervising closely the activity designated to them and ensure that all instructions are followed, and that safety and environmental procedures of the project is strictly adhered to.

**Workers** this Method Statement is binding to all employees and it is also the responsibility of the individual employee to comply.

## 5 REQUIREMENTS

Main contractor and sub-contractors are required to comply with the following:

- Mitigating, reporting, investigating and closing off incidents as per this document.

## 6 METHOD

### 6.1. Storing of Hazardous

#### 6.1.1 Fuel: Concrete Bunds

- Areas designated for storage of hydrocarbons must be illustrated on a site drawing and approved by the engineer.
- The bunds must be able to contain 110% of the volume of the stored material.
- The bund must be fitted with a drainage valve that can be closed.

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- Concrete bunds established for hydrocarbons stored in smaller volumes and in smaller containers such as 220L drums should be fitted with a roof where possible and relevant MSDS.
- Bunds must be labelled accordingly

#### **6.1.2 Liquids, gels, paints, adhesives**

- Storage areas must be lockable, ventilated and with an impervious floor area with a bund of adequate containment (at least 1.5 times the volume of the combined contents) for potential spills or leaks.
- Storage areas must display the required safety signs depicting “No Smoking”, No Open Flames” and “Danger”.
- Containers must be clearly marked to indicate contents as well as safety requirements
- Sufficient care must be taken when handling the materials to prevent pollution. Training on the handling of dangerous and toxic materials must be conducted for all staff prior to the commencement of the use thereof.

#### **6.2 Storing of Gas**

- Gas Stores
- Should be stored according to SANS 10087-7

#### **6.3 Hazardous bins**

- Bins to be enclosed and clearly marked, placed on impermeable surfaces within a bund.

#### **6.4 Spill Kits**

- Spill kits which are able to contain contents of 200L should be strategically placed closer to the hazardous storage facilities onsite.
- Hydrocarbon spill bags must be provided for in the construction trucks
- Properly marked

#### **6.5 Spill Drills**

- Emergency Spill drills may be conducted at the intervals as per project’s training matrix the EMS.

#### **6.6 Response**

##### **6.6.1 Spill Reporting (See Annexure A for more information)**

- All spills no matter how insignificant must be reported to the Safety officer and recorded.
- Information to be recorded for minor spills (less than 5L) includes the date of the incident, location of the incident and the remedial action. This must be documented on incident register.
- In the event that the spill is greater than 5L an incident report must be completed and closed off. The incident register must also be completed as a cross reference for the incident report.
- Any spills greater than 20L must be reported as per above and include an incident investigation to determine the root cause of the spillage and determine corrective action to prevent similar incidents in the future.

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- All investigations must be signed off by the relevant Site Agent.

#### **6.6.2 Spill Containment and Cleaning**

- Ensure that all the relevant MSDS's are readily available on site for the materials being utilized.
- In the event of a spill ensure that it is contained by any means possible until the oil spill kit arrives with the correct containment material.
- This is especially important when such a spill occurs near a body of water.
- On an impermeable surface make use of the absorbent materials supplied in the spill kit.
- On porous surface such as soil, excavate the contaminated material as soon as possible to prevent it from leaching further down.
- Place the contaminated material in the bags provided and remove to the hazardous storage facility at the site lay down areas.
- Store the contaminated material safely until it can be removed by an approved service provider.

#### **6.6.3 Follow up actions**

- Ensure that all the necessary reporting documentation has been completed.
- Return to the spill site to ensure that the area is satisfactorily cleaned.
- Ensure that all relevant safe disposal documentation is on file from the service provider before the incident report can be closed off.
- Ensure that mitigation measures put in place are being adhered to in order to prevent a reoccurrence of the incident.

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## ANNEXURE A – EMS Incident Protocol

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| LOW<br>SIGNIFICANCE | <b>Minimal environmental impact</b> <ul style="list-style-type: none"> <li>No disruption of project</li> <li>No public concern or attention</li> <li>Low level compliance and legal issues</li> <li>Remediation immediately</li> </ul> | <ul style="list-style-type: none"> <li>Ensure spillage is contained – drip tray</li> <li>Ensure that no further damage take place</li> <li>Record all the details of the incident.</li> <li>Photographs</li> <li>Consult MSDS</li> <li>Clean up spill with spill kit in prescribed manner</li> <li>Toolbox talk</li> </ul> | <ul style="list-style-type: none"> <li>Immediate Supervisor</li> <li>Project DEO</li> <li>Workshop mechanic and / or service crew</li> <li>Storemen</li> </ul> | <ul style="list-style-type: none"> <li>Incident Report</li> <li>Checklist</li> <li>Any documentation required by the Client.</li> <li>Revise method statement</li> </ul> |
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| <b>MEDIUM<br/>SIGNIFICANCE</b> | <b>Medium environmental impact</b> <ul style="list-style-type: none"> <li>Brief disruption to project or part there off</li> <li>Local public attention and concern</li> <li>Minor legal issues, non compliance and breach of law</li> <li>Short term remediation</li> </ul> | <ul style="list-style-type: none"> <li>Ensure no further spillage or damage</li> <li>Record all the details of the incident.</li> <li>Photographs</li> <li>Consult MSDS</li> <li>Clean up spill with spill kit in prescribed manner</li> <li>Drizit or Rapid Spill Response if spill is to big for spill kit</li> <li>Environmental awareness / re-induction</li> </ul> | <ul style="list-style-type: none"> <li>Immediate Supervisor</li> <li>Project DEO</li> <li>Site Agent / Manager</li> <li>Environmental Dept</li> </ul> | <ul style="list-style-type: none"> <li>Incident Report</li> <li>Investigation form</li> <li>Checklist</li> <li>Any documentation required by the Client.</li> <li>Revise existing method statement</li> <li>Method statement for future prevention</li> <li>Site instruction for rehabilitation</li> </ul> |
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| <b>HIGH<br/>SIGNIFICANCE</b> | <b>Serious environmental impact</b> <ul style="list-style-type: none"> <li>Partial shutdown of project or part there off</li> <li>Regional public attention and concern</li> <li>Serious breach of law, prosecution and / or penalties</li> <li>Medium term remediation</li> </ul>          | <ul style="list-style-type: none"> <li>Ensure no further spillage or damage</li> <li>Secure and evacuate area</li> <li>DRIZIT / RAPID SPILL RESPONSE</li> <li>Notify emergency services</li> <li>Notify authorities</li> <li>Record all the details of the incident</li> <li>Photographs / MSDS's</li> </ul> | <ul style="list-style-type: none"> <li>Immediate Supervisor</li> <li>Project DEO</li> <li>Site Agent / Manager</li> <li>Emergency services</li> <li>Drizit / Rapid Spill</li> <li>Affected parties</li> <li>Environmental Group Manager</li> <li>Divisional MD</li> <li>Regional / National authorities</li> </ul> | <ul style="list-style-type: none"> <li>Incident Report</li> <li>Investigation form</li> <li>Checklist</li> <li>Any documentation required by the Client.</li> <li>Revise existing method statement</li> <li>Method statement for future prevention</li> <li>Site instruction for rehabilitation</li> <li>Report to regional / national authorities</li> </ul> |
|                              | <b>Extreme environmental impact</b> <ul style="list-style-type: none"> <li>Substantial or total loss of project</li> <li>National / International public attention</li> <li>Considerable penalties, multiple lawsuits, prosecution and jail terms</li> <li>Long term remediation</li> </ul> | <ul style="list-style-type: none"> <li>Ensure no further spillage or damage</li> <li>Secure and evacuate area</li> <li>DRIZIT / RAPID SPILL RESPONSE</li> <li>Notify emergency services</li> <li>Notify authorities</li> <li>Record all the details of the incident</li> <li>Photographs / MSDS's</li> </ul> | <ul style="list-style-type: none"> <li>Immediate Supervisor</li> <li>Project DEO</li> <li>Site Agent / Manager</li> <li>Emergency services</li> <li>Affected parties</li> <li>Environmental Manager</li> <li>Regional or General Managers</li> <li>CEO</li> <li>Regional / National authorities</li> </ul>         | <ul style="list-style-type: none"> <li>Incident Report</li> <li>Investigation form</li> <li>Checklist</li> <li>Any documentation required by the Client.</li> <li>Revise existing method statement</li> <li>Method statement for future prevention</li> <li>Site instruction for rehabilitation</li> <li>Report to regional / national authorities</li> </ul> |

**DRIZIT: 0800 202 202**