OIL SPILL MANAGEMENT AND CONTINGENCY PLAN

### Tararua Wind Central Substation

# TRANSPOWER CONTRACTOR MANAGED DOCUMENT

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## PURPOSE OF THE OIL SPILL MANAGEMENT AND CONTINGENCY PLAN

##  To provide particular information to assist Transpower contractors, subcontractors and other Transpower approved employees in the operation of oil spill equipment and the management of oil spill emergency responses at this site.

1. **DOCUMENT STATUS**

 The Oil Spill Management and Contingency Plan complements but does not take precedence over any Transpower standards, manufacturer's information or similar documents or any specific instruction from Transpower. The manual also complements contractor's work procedures and training information.

As a Transpower Contractor managed Document, the Oil Spill Management and Contingency Plan has to meet contract requirements for its preparation and management which include quality, content, current applicability and suitability to be passed on to a succeeding contractor.

 A copy of the Oil Spill Management and Contingency Plan must be retained and readily available on site to assist in meeting Transpower's and the contractors’ statutory obligations and to protect Transpower's assets.

1. **REFERENCES**

**TP.GS 54.01** Oil spill management

**TP.SS 05.10** Environmental management of existing assets

OIL SPILL EMERGENCY NOTICE

Ensure all Personnel are safe

MAJOR SPILL

If insufficient resources on site contact others who could assist. CONTACT LIST IN OIL SPILL MANAGEMENT AND CONTINGENCY PLAN

Use Contractor Oil Spill Kits. If insufficient use Tilt Renewables Oil Spill Kits.

Stop or limit the oil flow from source

Stop or limit the flow into any storm water drain or waterway

Contact: NGOC

Ph: (04) 563 8161

or 5555 (via TPSN)

Mop up and spread absorbent material over affected area to absorb oil

WASTE DISPOSAL PROCEDURE.

Please refer to Oil Spill Management & Contingency Plan

Oil Spill Accident report in the Oil Spill Management & Contingency Plan MUST be filled out.

If contractor Oil Spill Kits are insufficient a Mercury Oil Spill Kit is located in a yellow “wheelie bin” in the Mercury Switchroom. Access to this kit can be obtained by acquiring an entry approval to the Substation.

The Oil Spill Management and Contingency Plan (OSMCP) for TRANSPOWER equipment at this site is located at the Control Room desk.

Please remember that Oil spill Accident Reports must be filled out and sent to the Transpower Service Delivery Manager

OIL FIRE EMERGENCY

**SCHEDULE OF HIGH RISK OIL AREAS**

**OIL FIRE**

Ensure all Personnel are safe

Call Emergency Services

( 111 )

Call National Grid Operating Centre

Ph: 04 563 5087

Is the fire on in service or isolated equipment?

In Service

**If it is safe to do so**:

Isolate the equipment from the network

Are skills & resources available to contain & fight the fire?

Out of Service

No

Wait for Fire Service & direct them to the fire

Yes

Stop oil flow at the source

Limit oil flow to storm water &/or waterways & contact Regional Council

Ph: 0508 476 558

Use NON-WATER extinguishers

Clean up oil and all affected areas

Oil Spill Accident Report

Dispose of oil & any waste

Areas of High Risk are identified in ‘TP.SS 05.10 Environmental management of existing assets’ under ‘Appendix B - Site Oil Management Requirements’ as:

1. Underground aquifers
2. Stormwater drains
3. Neighbours properties
4. Waterways

**Type of High Risk:** Stormwater drain discharge across neighbouring farm land.

**Location:** The discharge point of the Mercury Containment Tanks is into a 100mm field drain (for 30m) toward wetland, across neighbouring farm land, to the north of the Mercury Containment Tanks.

**Procedure:** Check to ensure that oil is not being discharged from the discharge point. If so, use ‘Matasorb’ absorbent pads and pillows to stop or limit the flow of oil from the discharge point. Contact the approved waste disposal agency as soon as possible to pump out the full containment tanks.

Please Remember: Oil Spill Risk Typically Increases When People Are

 Working on Equipment at the Site.

Contact Mercury if any spilt oil reaches the drainage system.

**PROTECTION AGAINST OIL DISCHARGE**

The greatest risk of contamination of the watercourses surrounding Tararua Wind Central Substation comes from the many items of equipment in service at the substation which contain oil for electrical insulating purposes, detailed below in the ‘Inventory of Equipment Containing Oil’.

As all stormwater collected on the site passes through oil interception facilities, any spilt oil should be contained in the oil containment tanks thereby preventing the risk of contamination of the local environment.

**1.0 PRIMARY SPILL CONTAINMENT**

In the event of a major oil spill the following basic steps are advised, although the location and nature of the spill may require a different sequence to that detailed:

1. Attempt to halt or reduce the leakage at the source if possible. The Transpower Oil Spill Kit contains ‘Plug N Dike’ compound which can be used as a temporary means of plugging leaking tanks or containers.
2. Prevent the spilt oil from entering the station stormwater system, by closing off the isolation valves within the bunded area if applicable (see Subsection 2.0 below), or by blocking the entrance to nearby drains.
3. If the oil spill occurs outside a bunded area, attempt to contain the spill by using the ‘Matasorb’ sock from the Transpower Oil Spill Kit or similar means to enclose the oil and prevent it escaping.
4. Once the spilt oil has been contained it can be soaked up using ‘Matasorb’ absorbent material and Castrol ‘Mop’ oil absorbent granules. If a large volume of oil has been spilt contact the local waste oil disposal company detailed in the Contact List (Waste Disposal agency) to arrange for the oil to be pumped directly into a road tanker for approved disposal.
5. When all the oil has been soaked up, the materials used to achieve this should be placed in plastic bags for safe disposal. If a large amount of oil has contaminated the soil, the effected material may need to be removed for disposal at an approved landfill.

### 2.0 MAJOR ITEM OF PLANT

The items of plant which contain the largest volumes of oil at Tararua Wind Central are power transformers, owned by Mercury. All power transformers are surrounded by bund walls, which in the event of a major spillage will contain the spilt oil and feed it directly into the station’s stormwater drainage system for ultimate collection in the appropriate downstream oil containment tanks.

The bunded areas surrounding the power transformers have oil shut-off valves which shall be immediately closed in the event of a major oil spillage, to isolate the area from the stormwater drainage system. This allows the leaked oil to be more easily pumped out into suitable vessels.

The shut-off valves shall be closed when maintenance is carried out on the power transformers, thereby reducing the risk of any spilt oil entering the stormwater system.

In addition to bunding, all of the power transformers have low oil level alarms which are initiated if the oil level in any of the units drops below a pre-determined point. Mercury monitor and maintain the transformers at Tararua Wind Central.

3.0 minor items of plant

The minor items of plant (instrument transformers and local service transformers) located in the switchyard at Tararua Wind Central Substation contain electrical insulating oil, are detailed below in the ‘Inventory of Equipment Containing Oil’. The majority of equipment at Tararua Wind Central is owned by Mercury.

Because of the relatively small volumes of oil contained in these items, they are not surrounded by bund walls or provided with dedicated connections to the station’s stormwater system.

If oil spillage from any minor item of plant should occur every attempt shall be made to collect and mop up the spilt oil following the procedures detailed above in Section 1.

The coarse rock ground cover found in the switchyard should assist in containing the oil in the immediate area of any spill.

Contact Mercury if any spilt oil reaches the drainage system.

Contact Mercury if any oil is spilt on site.

4.0 DESCRIPTION OF oil CONTAINMENT system

The oil containment system at Tararua Wind Central works by allowing any entrapped oil to separate out of the run-off water due to the different specific gravities of the two fluids. The run-off water enters the successive tanks at a high level and is drawn off from a low level, thereby allowing the lighter oil to rise to the surface while the heavier water flows through the system and away.

The oil containment tanks at Tararua Wind Central are routinely inspected by Mercury staff, for oil build up and general operational condition.

The location and catchment areas of the oil containment tank is as follows:

1. Discharge Interceptor Tanks – (2 x 25,000 litre) are located at the northern fence of the switchyard adjacent to Transformer T2.
2. Discharge Interceptor Tanks – (2 x 5,300 litre) are located outside the southern fence of the switchyard adjacent to the DVAR.

Mercury will arrange for the disposal of any oil found in the containment tanks.

Transpower has no drawings of the oil containment tanks, or drainage system at Tararua Wind Farm. Contact Mercury for any information and drawings regarding drainage or oil interception tanks.

INVENTORY OF EQUIPMENT CONTAINING OIL

Station: Tararua Wind Central Last Updated: 2020-04-21

| Device Position/ Location | Number of units and Description | Volume of Oil¹ | Bunded Area | Comments |
| --- | --- | --- | --- | --- |
| CVT192 | 3 x Haefely Trench 230SX | 294 |  | 3 x 88.5 kg |
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¹Note: Quantities shown are totals (litres). Specific Gravity of 0.9 assumed for calculations from weights

CONTACT LIST – WHEN AN OIL SPILL HAS OCCURRED

|  |  |  |
| --- | --- | --- |
| EMERGENCY SERVICES | Ambulance, Fire, Police | Dial: Prefix for outside line then 111  |
| CONTRACTORS PERSONNEL | Name: Hendrik SmitMaintenance SupervisorName: Hagan BurgessDelivery Manager | Mobile: (027) 439 0313Mobile: (027) 4262 572 |
| TRANSPOWER PERSONNEL | NGOC Name: Darryn WelhamService Delivery Manager | Phone: (04) 563 5087TPSN: 5555Phone: (06) 590 7691Mobile: (021) 243 0014 |
| OTHER (e.g. another Contractor or Generator in the vicinity that could be called in to help) | Name: Lignesh ArunasalumVentia OperationsManager Central | Teams: (06) 358 4965Mobile: (027) 278 4135 |
| WASTE DISPOSAL AGENCY | J.B.s Environmental Limited | Phone: (06) 367 5075Freephone: 0800 44 26 28 |
| Mercury |  | Phone: (06) 362 7659 |

If you are unable to contact the NGOC or Transpower Service Delivery Manager and the oil spill has entered waterways contact the Regional Council immediately.

|  |  |  |
| --- | --- | --- |
| REGIONAL COUNCILHorizons (Manawatu-Wanganui) | Pollution Hotline 24hrs0508 476 558 | Phone: (06) 9522 800Fax: (04) 385 6960 |

Any contact with the Media will be made by Transpower.

WASTE DISPOSAL PROCEDURE

Pack all contaminated material into bags/drums.

**To dispose of contaminated oil.**

## Contact: J.B.s Environmental Limited

**Ph: 06 367 5075**

## Ph: 0800 44 26 28

To dispose of oil contaminated waste.

## Contact: J.B.s Environmental Limited

**Ph: 06 367 5075**

**Ph: 0800 44 26 28**

Check kit and replace any material required.

NZ Safety Blackwoods

Ph: **0800 660 660**

Record Number …………

OIL SPILL ACCIDENT REPORT

(for spills greater than 5 litres)

Contractor:……………………………….. Site:…………………………………………………..

Date of Spill:……………………………… Time of Spill:………………………………………..

Persons on Site at Time of Spill:……………………………………………………………………….

……………………………………………………………………………………………………………

Describe the Incident – include reason WHY there was an oil spill:

Was there a fire? Yes/No

Did Oil escape into waterways? Yes/No

If yes, what was the name of the waterway? ………………………………………………………….

If Oil escaped into waterways, what were the waterway levels? Low/Typical of that waterway/High

What were the weather conditions? ………………………………………………………………….

…………………………………………………………………………………………………………..

Estimated Amount of Oil Spilled: …………... Estimated Amount of Oil Recovered: ……………

Describe Clean Up and Corrective Action:

Notification Schedule:

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| --- | --- | --- |
| Organisation | Name of Person Notified | Time Notified |
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Completed By:

Print Name: Position:

Signed: Date:

Please forward this form to the Transpower Service Delivery Manager.