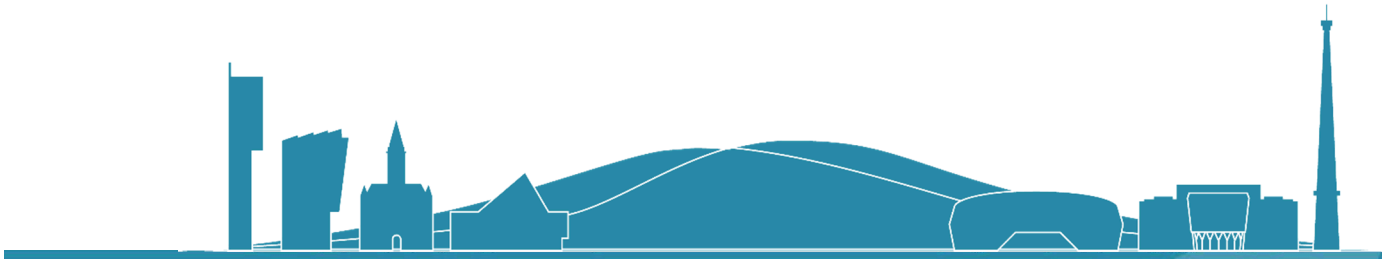
TRANSPIRE ALLIANCE



Environment & Social Management Plan

Procedure:

ENV03

Oil Storage and Refueling

amey ARUP bam NetworkRail

PLAN OUTLINE

Reference No:	151667-TSA-00-TRU-PLN-W-EN-000012
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Principal Contractor:	BAM Nuttall and Amey
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Approval

	Name	Title	Signature
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Scope

This procedure is a sub-procedure of the Environment & Social Management Plan (ESMP) and describes the Alliance arrangements for management of oil storage and refuelling. It deals with the identification of risks and opportunities from the construction activities and the control measures to be implemented by managers at all Alliance sites, offices and compounds.

This procedure is also applicable to work carried out by all Alliance subcontractors.

Purpose of Procedure

Compliance with this procedure ensures:

- Compliance with Relevant UK Legislation and industry best practice
- Compliance with Network Rail Standards
- oil and fuels are stored and transferred to plant and equipment in a manner that prevents leakage, spillage and subsequent environmental damage
- Construction activity is controlled to enhance environmental performance, were possible

Definitions

Within this procedure the term agent is used to denote the manager with overall responsibility for a project site, office and compound.

Responsibility

The agent as defined above is responsible for ensuring compliance with the requirements of this procedure within the area of his/her operational responsibility.

All Alliance personnel are responsible for complying with the overall requirements of this procedure, with specific responsibilities for individuals defined within the process section of this procedure.

Process

5.1. Identification of risks and opportunities

5.1.1. Location

The agent provides designated areas for the storage of oils and refuelling activities following the review of risks and opportunities assessment for water pollution in accordance with procedure ENV02 Water management. Checks are completed on all supplied bowsers and fuel; storage tanks to ensure all legal and company requirements are managed appropriately. The EA is consulted if any part of the site is above a groundwater source protection zone (GPZ).

Storage areas are located away from watercourses and drains wherever possible (at least 10m from surface waters and 50m from a borehole). Storage areas are also located in areas free from vehicle movements to minimise the risk of collision damage.

The agent considers the installation of oil interceptors within compound drainage systems on projects where a significant volume of fuel and oil is stored.

5.2. Operational planning and control

5.2.1. Storage arrangements

The agent selects the most appropriate oil storage and refuelling arrangements for the project, office or compound giving consideration to the options and guidance's below.

In all cases, the agent ensures that containers used for oil/fuel storage (including waste oils) are:

- compliant with the oil storage regulations (OFS T100/T200 standard)
- structurally sound and strong enough to prevent leakage
- labelled with the contents and volume clearly displayed
- stored in an upright position within a secondary containment area
- locked and secured when not in use

Bunds for static tanks and mobile bowsers are impermeable to oil and water and capable of holding 110% of the tank capacity. Oil drums with a capacity of greater than 205 litres are stored within secondary containment capable of containing at least 25% of the volume.

Where there are multiple containers, they are not less than 110% of the largest container's storage capacity or 25% of their aggregate storage capacity, whichever is the greater.

The agent ensures that ancillary equipment such as sight gauges, valves, vent pipes, refuelling hoses and triggers are:

- contained within the bund and returned to the bund when not in use
- fitted with automatic shut off valves in case of failure

- locked when not in use

In all cases where bunded fuel tanks feed into site generators, the whole set up is contained within an impermeable bund which is capable of holding 110% of the combined capacity of both the generator and fuel tank bunds. The set-up is covered by a roof structure to prevent rainwater collecting in the bund. Containers or combined housing units are also available for this purpose.

5.2.2. Fuel delivery

The foreman ensures that bulk deliveries of fuel are supervised at all times by a member of the site team.

5.2.3. Plant refuelling points and refuelling operations

The agent establishes refuelling areas at designated points on site. These are located away from watercourses and drains and on areas of hard standing wherever possible in accordance with 5.1.1

The agent ensures that plant refuelling is only carried out by designated personnel and is trained for Plant refuelling, this includes subcontracted personnel. Containment such as plant nappies must be used during refuelling operations to reduce the risk of ground or surface water contamination.

The agent ensures that a site-specific risk assessment and Task briefs (TBS) is produced and briefed to personnel where refuelling above, on or adjacent to water cannot be avoided.

5.2.4. Waste storage

The agent ensures that suitable arrangements are made for the safe storage, collection and disposal of waste oils from site in accordance with procedure ENV04: Waste management.

5.2.5. Emergency arrangements

The agent ensures that emergency arrangements are defined for accidental oil spills including the provision of emergency products and equipment appropriate to the level of risk, size and type of site and volume of oils stored. The agent contacts an emergency spill contractor to ensure they are able to provide adequate coverage for the site if required.

The agent ensures that the emergency procedure is documented, communicated to site personnel and drilled regularly to ensure preparedness.

In the event of an emergency, the agent contacts the environment team and/or the regulator if required.

5.3. Communication

Site wide compliance obligations and control measures defined within the ESMP and project execution plan (PEP) are communicated to the entire workforce as part of site induction. This includes:

- the positioning of facilities relative to sensitive receptors
- refuelling arrangements

- emergency spill provisions and locations

The agent ensures that particular attention is given to communicating requirements for compliance obligations and control measures to subcontractors and relevant parties during pre-start meetings.

Work package plans (WPP) and TBS are prepared to incorporate all identified controls. The agent ensures that controls identified are understood and fully implemented.

5.4. Monitoring

The agent ensures that suitable arrangements are made for the regular monitoring of environmental performance, including checks as part of the agent's weekly safety and environmental tour and the site environmental engineers regular inspections.

5.5. Records

The following records are maintained in accordance with the project document control procedures:

- inspection and maintenance records
- oil storage requirements checklist
- interceptor maintenance records
- emergency procedure drill feedback report

Records are readily available for inspection at all times.

5.6. Training

Training on the implementation of this procedure is provided:

- as part of the Alliance environment training programme
- by agents during the instruction and coaching of personnel who are nominated to operate it
- by supervisors during briefings and toolbox talks to the workforce
- by environmental advisors during site and office inspections