

Report on the Monitoring and Maintenance Program for Terminals Pty Ltd Coode Island Facility

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The original monitoring program was based on the EPA licence conditions. After receiving an Accredited Licence for the Coode Island facility, Terminals Pty Ltd incorporated the licence conditions into our environmental manual.

The monitoring program is reviewed for its effectiveness during every annual environmental audit, and revised if required. When a revision is made, the environmental manual is updated.

Some of the items that are reviewed are:

- Previous monitoring results;
- Estimated emissions from the previous 12 months;
- Changed in chemicals stored at the facility;
- Changes in EPA categories of chemicals.

Some information from the Maintenance Manual applying to:

- Equipment Inspection Schedule for Tanks and Fittings; and
- Inspection Procedure for Storage Vessels, Tanks and Fittings (API [American Petroleum Institute] 650 & API 620 tanks)

is provided below. This information is seen as particularly relevant to the community, as it demonstrates the effort Terminals Pty Ltd takes in its routine maintenance procedures.

Equipment Inspection Schedule — Tanks and Fittings (all Terminals sites)

In accordance with Australian Standards AS 1940, AS 3788 and Terminals Pty Ltd adopted standards, the following inspections are to be carried out on product storage tanks.

Equipment	Duration
All of tank visual	Monthly
Roof	Monthly
Shell, Bottom/Foundations and Other Fittings	Monthly
Foam Chamber and Vacuum Vent	Monthly
Internal elbow Polymerisable/Corrosive product	6-Monthly
Level Control	6-Monthly
Thermal Relief Valves	Yearly
Foundations – New Tanks	After 1 year
PRV (Pressure Relief Valves), ERV (Emergency Relief Vents) & VV (Vacuum Vents) (API 620 tanks)	5 yearly
Tank Shell Ultrasonic	10 yearly

Roof & Bottom Plates	10 yearly
Foundations	10 yearly
Roof Seals on Floating Roof Tanks	10 yearly

Inspection Procedure for Storage Vessels (API 650 & API 620 tanks)

Inspection Procedure — Whole of Tank

Carry out visual inspection of whole of tank, vents, valves and fittings to ensure that items are sound and operating correctly.

Inspection Procedure — Roof (standard procedure)

Inspect **P&V** (Pressure & Vacuum) for free operation and reseating by checking vacuum pallet operation (i.e. not sticky) by inserting pen/rod. Check for any polymerisation, corrosion and veg. oil matter.

Inspect seal on dip hatch. Ensure clamping mechanism is operational.

Inspect seal on emergency vent. Ensure weight is intact.

Inspect integrity of foam chamber (**MMA** [Methyl Methacrylate] and styrene tanks only).

Check vapour recovery ducting for leaks. Ensure slide gate shut off is operational.

Inspect Nitrogen Blanketing system pipework and fittings for leaks. Ensure all system components are operational and in good condition.

Check ERV, PRV and VV drain holes are clear (when fitted).

Inspect integrity of insulation where installed. Check for signs of water leakage at the bottom of the tank between insulation and foundations.