Australian Fuel Retailing Code of Practice

- Fuel Storage & Dispensing Systems

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Australian Fuel Retailing Code of Practice
- Fuel storage and dispensing systems

About this document

The Australian Fuel Industry Code of Practice for Fuel Storage and Dispensing Systems establishes a benchmark for excellence and accountability within the fuel sector. Developed through the collective expertise of industry professionals and regulatory authorities, this Code is designed to guide Fuel Operators and Contractors in adopting best practices that ensure the highest standards of safety, environmental stewardship, and operational integrity.

This Code is intended for use by Fuel Operators and Contractors and serves as a public commitment by these businesses to rigorously comply with all relevant laws and regulations. By embracing these guidelines, companies affirm their dedication to maintaining transparent and responsible operations, thereby protecting public interests and reinforcing community trust in the industry.

The principles and standards set forth herein are reflective of the Industry's commitment to continuous improvement and sustainable industry practices. We recognize that adherence to these practices is vital not only for legal compliance but also for fostering a culture of excellence and innovation within fuel storage and dispensing systems.

In adopting this Code, the industry collectively pledges to uphold the legal, ethical, and operational standards essential for a safe and environmentally sound fuel management framework. This commitment underpins our shared goal of ensuring that every aspect of fuel storage and dispensing operations meets the rigorous demands of both current and future regulatory environments.

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1. Introduction

This Code of Practice establishes mandatory compliance requirements for the design, management, operation, and maintenance of fuel storage and dispensing systems. Such systems include but are not limited to, Underground Petroleum Storage Systems (UPSS).

The purpose of this code is to bind signatories to all provisions of the Code to ensure that these assets are managed in a manner that:

a) ensures environmental protection;
b) affords a high level of safety to fuel industry workers and the general public; and,
c) Ensures effective industry compliance with all relevant legislation and regulation.

The Code is intended to apply to all those involved in:

- the design, installation, operation, and maintenance of fuel storage & dispensing systems
- the sale and or purchase of sites that include or have included a fuel storage and dispensing system.

All signatories to this code agree to adhere to all stipulated obligations and responsibilities as a minimum.

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2. Scope and General Requirements

2.1 Scope

This Code defines the standards for:

a) designing, installing, operating, maintaining, modifying and decommissioning fuel storage and dispensing systems at fuel sites; and,
b) the purchase or sale of properties that include or have included operating fuel storage and dispensing facilities and equipment.

The Code also sets out leak detection, inventory control, and compliance obligations.

2.2 Application

This Code applies to all new fuel storage and dispensing installations and modifications/upgrades, as well as existing systems where maintenance, repairs, or operational controls are required. This Code applies to:

a) the underground components of the fuel storage and dispensing system, commonly referred to as the UPSS;
b) to any above ground components of the fuel storage and dispensing system, including above ground storage tanks (ASTs) and associated pipework;
c) to the forecourt fuelling area effluent management system at the site.

For the purpose of this Code, full compliance with the provisions of this Code is required where works are undertaken that involve the removal or replacement of 50% or more of the fuel storage tanks in the system.

2.3 Exclusions

This Code does not apply to the following infrastructure at fuel sites:

a) The design and installation of *existing* UPSS systems.
b) Stormwater, wastewater, or catchment systems at existing fuel sites.
c) Liquefied Petroleum Gas (LPG) storage systems.
d) Electric vehicle recharging infrastructure
e) Hydrogen storage and dispensing infrastructure.

2.4 Code Signatories

Signatories to this code include, but is not limited to, the following sub-segments of the Australian Fuel Industry:

a) Fuel site owners
b) Fuel site operators
c) Petroleum contractors involved in the design, installation, maintenance and decommissioning of fuel storage and dispensing systems

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d) Petroleum equipment providers
e) Businesses involved in the sale/ purchase of fuel sites.

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3. Responsibilities of Service Station Owners and Operators

3.1 Design and Installation

Service station owners and operators must

a) Ensure fuel systems are designed and installed by *duly qualified person(s)* (DQPs) as stipulated in the relevant legislation for each Australian State/Territory. In the absence of a clear definition, this Code defines a DQP as being a person who complies with one of the following:
   - *i. Possesses a professional engineering qualification in a related discipline (e.g. Civil engineering, Industrial engineering or Environmental engineering)*
   - *ii. Possesses a trade certificate with relevant industry experience*
   - *iii. Has completed nationally accredited training (i.e. micro-credential) or other relevant training with relevant industry experience equal to Australian Industry Skills module of competency TLIX0024 Install, modify and commission fuel storage and dispensing systems*
   - *iv. Possesses a long history (i.e. 15+ years) of relevant fuel industry experience*
   - *v. Is recognised by a relevant fuel industry body or related professional body*
   - *vi. For sites in Western Australia, the design must be assessed and approved by an industry accredited dangerous goods consultant, refer specific WA requirements and related details.*

b) Use non-corrodible tanks and piping to prevent leaks.

c) Install secondary containment (double-walled tanks and piping) where required by local Regulations &/or guidelines.

d) Engage only competent, experienced and/or licensed contractors for installation and obtain necessary approvals. Contractor competency should:
   - i. be assessed against the Australian Industry Skills modules of competency TLIX0024, TLIX0026 and TLIX0027 for installation, modification and commissioning plus safe work practices on fuel sites.
   - ii. include current WPCG (*Work Place Control Group*) accreditation
   - iii. include current training accreditation from fuel storage tank, fuel pipework, fuel dispensing pumps and related specialist equipment suppliers and/or manufacturers.

e) Maintain as-built documentation for future reference and ensure that this documentation can be readily made available to regulators on demand. The minimum standard for fuel system documentation shall be as detailed in Australian Standard 4897 (*AS4897 Design, Installation and Operation of Underground Petroleum Storage Systems)* Clause 6.4 and Appendix C.

3.2 Refuelling Area Effluent Management

As part of the environmental protection and management of a fuel storage and dispensing site the forecourt refuelling area shall be contained and effluents from this potentially contaminated area shall be drained to a controlled storage and treatment system before discharge and/ or removal from the site.

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Requirements for management of effluents from the fuelling areas of sites vary across the States and Territories of Australia and also within different local government areas. Responsibility for compliance with these requirements falls initially to the site owner and the site designer and the ongoing maintenance of these protection measures falls to the site operator and maintenance contractors.

Provisions for this environmental protection are detailed in regulations and guidelines for implementing the regulations and include the following, but not limited to:

a) Sealed fuel impervious surface for the site refuelling & fuel delivery areas

b) A physical divide (preferably using forecourt gradient or rollover bunding) between zones presenting a higher risk of contamination to that presenting a lower risk of contamination

c) A canopy that extends to the maximum reach of fuel dispensing nozzles and has a 10 degree-from-vertical overhang reducing rainwater entering high contamination zones. Rainwater that falls onto the canopy should be collected for re-use (if possible) or directed away from the potentially contaminated forecourt area(s)

d) Drainage pits collecting forecourt run-off from high contamination risk zone/s for appropriate management. Management options subject to local regulation include:
    i. On-site treatment and discharge to the local stormwater drainage system
    ii. On-site treatment and discharge to the local sewer system
    iii. On-site retention for periodic disposal, as required, via the local contaminated liquid waste system.

e) Bunding that encloses the storage tank fill connection points and/or spill containment enclosures. This bunded area should have appropriate capacity to contain the largest compartment of any tanker delivering to the service station (or 9000 litres) and drain to the high-risk contamination zone disposal system

f) Accessible and visible spill kits.

Note: for item d) above, where the treated effluent disposal system is to the local stormwater system the need for a canopy roof with overhang protection is not critical, provided the collection and treatment system capacity is designed to include possible rainwater flows. The need for the roof with overhang protection is critical to the other two treatment/ disposal options as rainwater must not be included in effluent flows to sewer and the collection for off-site disposal effluent volume needs to be minimised as much as possible.

3.3 Leak Prevention and Monitoring

a) Implement a leak monitoring system using one or more of the following:
    i. Automatic Tank Gauging (ATG)
    ii. Statistical Inventory Analysis (SIA)
    iii. Interstitial Monitoring (for double-walled systems)
    iv. Groundwater or vapor monitoring wells (where applicable)

b) Conduct regular fuel system integrity tests and retain records, all as detailed in Section 5 of this Code.

c) Maintain cathodic protection for steel tanks with minimum annual testing. This includes for steel tanks that form part of the double wall non-corrodible fuel tank system for

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repaired/ relined fuel storage tanks (Note: Where an 'impressed CP' system is installed, the testing interval should be a minimum of 6 months).

3.4 Inventory Control and Loss Investigation

a) Maintain accurate daily fuel stock reconciliation records.

b) Investigate discrepancies exceeding acceptable limits.

c) Report suspected leaks immediately and take remedial action.

d) It is recommended that where a Statistical Inventory methodology is used at a site the service is provided by a third-party specialist using a system that complies with the USEPA compliance requirements for loss detection and false alarms.

3.5 Spill Response and Environmental Protection

a) Implement an emergency response plan for spills or leaks.

b) Provide spill containment at fuel fill points.

c) Notify regulatory authorities immediately in the event of a fuel spill or confirmed leak.

d) Prevent contamination of groundwater and nearby sensitive sites.

3.6 Maintenance and Record-Keeping

Fuel site owners and operators must:

a) Conduct regular maintenance of fuel storage and dispensing system components and only engage competent, experienced and/or licensed contractors for maintenance of fuel storage and dispensing systems. Contractor competency should:
   - be assessed against the Australian Industry Skills modules of competency TLIX0025 Maintain fuel storage and dispensing systems and TLIX0026 and TLIX0027 for safe work practices on fuel sites.
   - include current WPCG (*Work Place Control Group*) accreditation
   - include current training accreditation from fuel storage tank, fuel pipework, fuel dispensing pumps and related specialist equipment suppliers and/or manufacturers.

b) Keep comprehensive records of all maintenance activity. Such records must at least include:
   i. Groundwater monitoring well sampling tests (nominal six monthly as required by local regulation or recommended practice)
   ii. Leak detection tests (minimum two years).
   iii. System integrity tests (EIT).
   iv. Fuel storage and dispensing system installation and modifications (for the system's lifetime).
   v. Fuel inventory reconciliation (minimum two years).
   vi. Incident reports (as required by local regulations).

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3.7 Decommissioning and Fuel storage and dispensing system Closure

When decommissioning or closing sites, site owners must:

a) Follow the procedures set out in Australian Standard 4976 *(AS4976 The removal and disposal of underground petroleum storage tanks)*.

b) Engage qualified professionals to remove or decommission underground tanks and associated pipework systems. Such professionals should be:

   i. experienced in the removal of fuel systems, equal to the competency standards set out in Australian Industry Skills competency module TLIX0022 Decommission fuel storage and dispensing systems;

   ii. experienced in the removal of fuel systems, including the capacity to certify that decommissioned systems are safe and free of liquid fuel and fuel vapours, "gas free"

   iii. demolition contractors who have experience in the removal of fuel systems. Note: there are varying requirements for demolition contractor licensing across Australian States and Territories. Check the requirements applicable to the works proposed at your site(s) location.

c) Conduct soil testing equivalent to an Environmental Site Assessment (ESA) as specified by local Regulations & Guidelines to ensure no contamination remains that exceeds acceptable limits.

d) Notify relevant authorities of system removal in accordance with legislated reporting timelines.

e) Retain decommissioning records for future compliance checks and to pass to future owner(s).

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4. Site Classification

Sites that incorporate a fuel storage and delivery system are classified based on the environmental risk ratings included in AS4897 Section 2 and installed fuel system components in AS4897 Section 3:

a) **Class A (High-Risk Areas):** Near drinking water sources, wetlands, basements, or tunnels. Requires secondary containment of fuel storage and dispensing equipment and leak detection.

b) **Class B (Medium-Risk Areas):** Near underground utilities or residential areas. Requires leak monitoring and inventory control.

c) **Class C (Low-Risk Areas):** Requires basic leak prevention measures.

Noting that these classifications only apply to new sites (or full site upgrades) affected after 2008, this Code includes two *additional* classifications for sites built prior to 2008. These classifications can be summarised as follows:

a) **Class D (Pre 2008 with post 2008 modifications)**: These are service station sites that were constructed prior to the year 2008 but have been modified since 2008 (i.e. partial compliance with AS 4897)

b) **Class E (Pre 2008 with no modifications):** Fuel retail sites where the fuel storage and dispensing system was installed prior to 2008 and has not been modified since that year.

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5. Testing and Certification of Fuel storage and dispensing systems

To maintain compliance and environmental safety, all fuel storage and dispensing system tanks and pipework must undergo periodic testing and certification per Australian and international standards.

5.1 Equipment testing regime (all site classifications)

Fuel storage and dispensing system component testing shall be equivalent to the Equipment Integrity Test (EIT) as detailed in AS4897 Section 8.5.

a) All new fuel storage tanks must be tested and certified before commissioning. It is recommended this EIT is a dual test event:
    i. At the completion of fuel system assembly/ installation prior to backfilling over the pipework
    ii. At the completion of all site paving work and related construction prior to delivering fuel to the site tanks.

b) All modified fuel storage and dispensing systems must be tested and certified before the system is returned to service. It is recommended this EIT is a dual test event:
    i. At the completion of fuel system assembly/ installation prior to backfilling over the pipework
    ii. At the completion of all site paving work and related construction prior to delivering fuel to the site tanks.

c) Fuel storage and dispensing system tanks and pipework must undergo full system integrity testing at least every five (5) years. This testing must also include the hydrostatic integrity testing of the fuel tank fill point structures. Exemptions and extensions for this testing period may be considered based on the installed equipment and management practices implemented for the site fuel system. Refer Table 5.1A below.

d) Testing must be conducted by a certified third-party specialist using approved methodologies.

e) Records of all certifications and test results must be retained for the system's lifetime and provided upon request to regulatory authorities.

f) Best practices detailed for Australia and also from New Zealand recommend testing against strict leak detection criteria using methods such as hydrostatic, inert gas pressure or vacuum testing to confirm system integrity.

g) For sites including non-metallic fuel storage tanks and pipework the earthing system must be tested for continuity and resistance to earth to ensure the safe management of static electricity.

Code signatories acknowledge that failure to comply with these testing and certification requirements may result in fines, site closure orders, and legal liability for environmental damage.

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Table 5.1: Fuel Storage and Dispensing System Testing Regime (All site classifications)

Item	Test frequency	Testing entity	Comments
Site environmental system testing – independent of site/fuel system age			
Groundwater monitoring well	6 monthly	3rd party specialist & NATA laboratory	
Wet stock inventory control	Daily records at site	Site operator data collection	
	Monthly	Site operator accepted. Recommend use 3rd party SIRA specialist with USEPA compliant system	Reconciliation/ analysis of daily stock records
Fuel system static earth continuity	annual	3rd party specialist hazardous area electrician	**Critical** to test on sites with non-metallic tanks & pipework
Fuel system static earth resistance to earth	Every 2 years	3rd party specialist hazardous area electrician	**Critical** to test on sites with non-metallic tanks & pipework
Cathodic Protection (CP) to tanks	6 monthly or annual	3rd party CP specialist contractor	Annual for sacrificial anode system 6 monthly for impressed current system
Forecourt effluent separator system	#	3rd party specialist contractor – licensed by separator supplier	# System dependent based on manufacturer's recommendations
Fill point spill containment system/ box	annual	Fuel system contractor	To confirm integrity of all pipe penetrations to 'box' & liquid integrity of 'box'

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5.2 Certification and testing frequencies

Certification and Testing Frequencies are to be undertaken on the basis of cascading risk regimen, where new sites are deemed to be the *lowest risk* and afforded long duration certification periods and testing frequencies (i.e. Class A Sites). Older sites with ageing equipment are deemed to be of *highest risk* and afforded short duration certification periods and testing frequencies (i.e. Class E Sites).

The subsequent certification and testing frequency for each class of sites is summarised in Tables 5.2(a) through 5.2(d) below.

Table 5.2(a): Licensing and testing frequency (*Class A sites*)

Item	Test frequency	Testing entity	Comments
New Fuel storage & dispensing system with AS4897 Equipment Level 1			
Maximum 10-year operating license provided no loss incidents			
Fuel tanks & pipework including fill points, pump sumps & tank turret structures for underground tanks	10 years from initial commissioning	3rd party specialist contractor	License suspended when: • modification work carried out on fuel system • loss event reported for wet stock control system • fuel found in groundwater well(s)
			License reinstated for further 10 years with: • EIT pass for full system after modifications/ repairs completed. • Wet stock loss event resolved showing no leak • Groundwater contamination source found and repaired with fuel system pass EIT
Existing Fuel storage & dispensing system with AS4897 Equipment Level 1			
In service for less than 10 years (NOTE: AS4897 commenced operation in January 2008)			
All as for new site			
Existing Fuel storage & dispensing system with AS4897 Equipment Level 1			
In service for 10 years or greater (NOTE: AS4897 commenced operation in January 2008)			
All as for new site – maximum license extension 10 years with retesting every 5 years			

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Table 5.2(b): Licensing and testing frequency (*Class B sites* & *Class C sites*)

Item	Test frequency	Testing entity	Comments
Existing Fuel storage & dispensing system (AS4897 Equipment Level 2 or Level 3)			
Regardless of age/ period in operation			
Maximum license period 7 years with retesting every 5 years unless a loss of containment incident occurs			
Fuel tanks & pipework including fill points, pump sumps & tank turret structures for underground tanks	7 years from initial testing	3rd party specialist contractor	License suspended when: • modification work carried out on fuel system • loss event reported for wet stock control system • fuel found in groundwater well(s)
			License reinstated for further 5 years with: • EIT pass for full system after modifications/ repairs completed. • Wet stock loss event resolved showing no leak • Groundwater contamination source found and repaired with fuel system pass EIT

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Table 5.2(c): Licensing and testing frequency (*Class D Sites*)

Item	Test frequency	Testing entity	Comments
Existing Fuel storage & dispensing system with only partial AS4897 Equipment			
Regardless of age/ period in operation			
Maximum license period 5 years with retesting every 2 years unless a loss of containment incident occurs			
Fuel tanks & pipework including fill points, pump sumps & tank turret structures for underground tanks	5 years from initial testing	3rd party specialist contractor	License suspended when: • modification work carried out on fuel system • loss event reported for wet stock control system • fuel found in groundwater well(s)
			License reinstated for further 2 years with: • EIT pass for full system after modifications/ repairs completed. • Wet stock loss event resolved showing no leak • Groundwater contamination source found and repaired with fuel system pass EIT

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Table 5.2(d): Licensing and testing frequency (*Class E Sites*)

Item	Test frequency	Testing entity	Comments
Existing Fuel storage & dispensing system with only no equivalent AS4897 Equipment and questionable compliance with AIP CP4 the recommended industry practice pre-2008			
Regardless of age/ period in operation (NOTE: sites in this category have been operating for more than 35 years)			
Maximum license period 2 years with retesting every 2 years unless a loss of containment incident occurs			
Fuel tanks & pipework including fill points, pump sumps & tank turret structures for underground tanks – if installed	2 years from initial compliance testing	3rd party specialist contractor	License suspended when: • modification work carried out on fuel system • loss event reported for wet stock control system • fuel found in groundwater well(s)
			License reinstated for further 1 year with: • EIT pass for full system after modifications/ repairs completed. • Wet stock loss event resolved showing no leak • Groundwater contamination source found and repaired with fuel system pass EIT
Existing Fuel storage & dispensing system with single wall steel fuel tanks & pipework			
Regardless of age/ period in operation (NOTE: sites in this category have been operating for more than 40 years)			
Maximum license period 1 years with retesting every year regardless of a loss of containment incident occurring			

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6. Site Sales and Environmental Site Assessments (ESA)

When selling a site that includes or has included an operating fuel storage and dispensing system, the seller must provide an up-to-date Environmental Site Assessment (ESA) as part of the sale documents.

6.1 Seller Responsibilities

a) Commission an ESA from a qualified environmental consultant within 12 months before sale.

b) Provide the ESA report to potential buyers as part of the disclosure process.

c) Address any identified contamination issues before sale completion.

6.2 Buyer Responsibilities

a) Obtain and review the ESA report before proceeding with the purchase.

b) Engage an independent environmental consultant to verify findings if necessary.

c) Ensure the site complies with all environmental obligations before completing the transaction.

Code signatories acknowledge that failure to comply with ESA requirements may result in regulatory penalties and environmental liability for both buyers and sellers.

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7. Industry-specific Regulations (and Guidelines) in Australia

Signatories to this Code commit to ensuring compliance with their respective state or territory regulations as a minimum

State/Territory	Regulating Authority	Key UPSS Requirements
NSW	NSW EPA	UPSS Regulation 2019, leak detection, pollution prevention, annual reporting
Victoria	EPA Victoria	Environmental Protection Act 2017, leak monitoring, secondary containment
		Dangerous Goods Act 1985
		Dangerous Goods (Storage and Handling0Regulations 2012
Queensland	Department of Environment and Science	Environmental Protection Act 1994, groundwater protection, mandatory reporting
	Workplace Health and Safety Queensland	The Work Health and Safety Regulation 2011
South Australia	EPA SA	UPSS guidelines, secondary containment, inventory control
	SafeWork SA	Demolition work Code of Practice 2020
Western Australia	Department of Mines, Industry Regulation and Safety	Dangerous Goods Safety (Storage and Handling of Non-Explosives) Regulations 2007
	Department of Water and Environmental Regulation	Contaminated Sites Act 2003, leak detection, soil remediation
Tasmania	EPA Tasmania	Environmental Management and Pollution Control Act 1994, risk assessments
		Environmental Management & Pollution Control (UPSS) Regulations 2020
Northern Territory	NT EPA	Waste Management and Pollution Control Act 1998, leak detection, decommissioning rules
ACT	ACT Environment Protection Authority	UPSS Environment Protection Guidelines, contamination risk management
		Environmental Guidelines for Service Station Sites and Hydrocarbon Storage, May 2009

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8. Compliance Checklists (for Site Owners & Site Operators)

8.1 Installation: Ensure correct Fuel storage and dispensing system installation and approvals.

8.2 Operation & Maintenance: Conduct regular monitoring, testing, and upkeep.

8.3 Record Keeping: Maintain all required documentation for regulatory compliance.

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8.1 Fuel System Installation Check List

Item	Regulation/ guideline Reference	Description	Completed/ item available	Comment
Design				
Design DQP appointed		Competency statement		
Site Environmental classification	AS4897 Sect 2	Site classified or Level 1 equipment adopted		
Fuel system design		Compliance Certificate from DQP		
Fuel System drawing				
Hazard assessment		Hazard Zone drawing		
Fuel Tanker delivery position	ADG & AS1940	Fully on site and vehicle movement complies		
Fuel system hazard zones fully on property	AS60079.10.1	Hazard Zone drawing &/or details of boundary vapour barriers		
Installation				
Experienced/ qualified contractor engaged	EPA requirement	Competency statement/ licenses reviewed		
Contract		Contract in place & signed		
Fuel tanks – underground and/ or above ground	Site drawings/ surveyor	Excavation &/ or foundation pad in correct position & to correct depth		
	Manufacturer	Delivery check sheet completed		
	Manufacturer	Installation check sheet completed		

Item	Regulation/ guideline Reference	Description	Completed/ item available	Comment
Fuel tanks – underground	Manufacturer	Tank backfill approved		
Fuel tanks – underground	Project Manager	Tank pit observation wells installed		
Fuel pipework	Manufacturer	Install contractor licensed by supplier/ manufacturer		
	Project Manager	Pipe installation matches drawings & industry specified standards for alignments & grades		
	AS4897 Sect 8.5	Pre bury EIT completed		
	AS4897 Sect 8.5	EIT of tank turrets & under pump sumps		
	AS4897 Sect 8.5	Post paving & construction EIT, prior to fuel delivery to tanks completed		
	Project Manager	Hydraulic integrity of fill point containment equipment tested		
Fuel system earthing	AS4897 Sect 4.4	Electrical continuity of earth system tested		
	AS4897 Sect 4.4	Resistance to earth tested		
Groundwater monitoring wells	AS4897 Sect 4.5.7	Wells installed with correct driveway lids/ markings		
		Well locations marked on site fuel system drawings		

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Item	Regulation/ guideline Reference	Description	Completed/ item available	Comment
Fill & Dip point markers	AS4977	Correct markers installed to the industry standard or site branding requirements		
As-built documents	AS4897 Sect 6.4.3	Fuel system as-built drawings available		
		Fuel system as-built photos available		
	AS4897 Sect 6.4.2	Installation contractor's compliance letter received		
	AS4897 Sect 6.2.2	Fuel system designer final certificate received		
Electrical safety	AS3000	Hazardous area electrical dossier available		
		Fuel system power isolation Emergency Stop switches tested		
Vapour recovery Stage 1 (if installed)		System commissioned & tested – commissioning report provided		
Vapour recovery Stage 2 (if installed)		System commissioned & tested – commissioning report provided		

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Item	Regulation/ guideline Reference	Description	Completed/ item available	Comment
Warranty documents & equipment operations manuals		Tank manufacturer's warranty received		
		Fuel dispenser/ dispensing pump warranty documents & operation manuals received		
		Meter calibration certificates received		
		Forecourt effluent system manufacturer's warranty & operations manuals received		
		ATG (if installed) commissioned & Operations manuals received		
Pressure fuel systems only STP = Submersible turbine pump PLLD = pressure line leak detection		STP & PLLD (if installed) commissioned & Operations manuals received		
Site Emergency management	SafeWork/ Workcover & EPA	Site incident management manual available		

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		Site emergency evacuation diagram available		
HAZMAT Manifest	SafeWork/ Workcover	Hazmat emergency information		
		Hazardous material manifest provided		
		Notification to authorities' confirmation letter received		
		SDS available		

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8.2 Fuel System Operation & Maintenance / Modification Check List

8.2A Fuel System Operation & Maintenance Check List

All check list items listed in the first part of the list relate to ongoing operational and maintenance issues on site that involve regular testing and reporting activities that require records to be created and maintained.

Item	Regulation/ guideline Reference	Description	Completed/ item available	Comment
Site Operation				
Fuel (wet stock) inventory records	AS4897 Sect 4.5.4 & Appendix D	Daily records & monthly reconciliation/ loss trends		
Fuel system leak detection/ loss monitoring system(s)	AS4897 Sect 4.5.1 Leak detection system equipment manufacturer	A written description of the routine operation, maintenance and service requirements for the equipment/ systems		
Groundwater monitoring wells (if installed)	AS4897 Sect 2	Samples recovered		
	NATA laboratory	Test results received & action taken as required		
Loss investigation incident		Incident report		
		Remedial actions taken		
		EIT results recorded after repairs		
Leak &/ or spill incident		Incident report		
		Remedial actions taken		
		EIT results recorded after repairs		

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Item	Regulation/ guideline Reference	Description	Completed/ item available	Comment
Leak detection alarm incident		Incident report		
		Remedial actions taken		
		EIT results recorded after repairs		
Fuel system static earth	AS4897 Sect 4.4.4	Annual continuity check test report & remedial action records		
Fuel system static earth resistance to earth		2 yearly check test report & remedial action records		
Stage 2 Vapour Recovery (VR2) alarm incident		Incident report(s)		
		Remedial actions taken		
		EIT results recorded after repairs		
Cathodic Protection (CP)	AS4897 Sect 4.2	System installation & commissioning report		
	AS4897 Sect 8.3.1	Periodic ongoing inspection & testing reports including anode mass and replacement as/ if required		
	AS4897 Sect 8.3.1	Remedial action reports confirming recommended works carried out		

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Item	Regulation/ guideline Reference	Description	Completed/ item available	Comment
Forecourt effluent separator system		Maintenance & inspection reports for the collector drainage system & remedial action reports as required		
		Maintenance and inspection reports for the treatment system equipment & remedial action reports as required		
		Effluent disposal records for waste fuel/ oils		
		Solid waste recovered from separator system equipment		
Fill point spill containment box or other equivalent items		Annual inspection & test reports – include remedial action reports as required		
Fuel system tank markers		Periodic inspection reports – include remedial action reports as required		
Leak detection alarm incident		Incident report		
		Remedial actions taken		
		EIT results recorded after repairs		

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Item	Regulation/ guideline Reference	Description	Completed/ item available	Comment
Fuel system static earth	AS4897 Sect 4.4.4	Annual continuity check test report & remedial action records		
Fuel system static earth resistance to earth		2 yearly check test report & remedial action records		
Stage 2 Vapour Recovery (VR2) alarm incident		Incident report(s)		
		Remedial actions taken		
		EIT results recorded after repairs		
Cathodic Protection (CP)	AS4897 Sect 4.2	System installation & commissioning report		
	AS4897 Sect 8.3.1	Periodic ongoing inspection & testing reports including anode mass and replacement as/ if required		
	AS4897 Sect 8.3.1	Remedial action reports confirming recommended works carried out		
Forecourt effluent separator system		Maintenance & inspection reports for the collector drainage system & remedial action reports as required		

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Item	Regulation/ guideline Reference	Description	Completed/ item available	Comment
		Maintenance and inspection reports for the treatment system equipment & remedial action reports as required		
		Effluent disposal records for waste fuel/ oils		
		Solid waste recovered from separator system equipment		
Fill point spill containment box or other equivalent items		Annual inspection & test reports – include remedial action reports as required		
Fuel system tank markers		Periodic inspection reports – include remedial action reports as required		

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8.2B Fuel System Modification Check List

The following check list items apply to fuels storage and dispensing system modifications. The listed items are the same as for a new installation. The difference is in application of the listed items. All items listed apply only to the new or modified/ repaired portion of the site fuel system INCLUDING any portion of the existing system that is incorporated into the new/ modified/ repaired portion of the system.

i.e., If a fuel pipe is extended or repaired due to damage then the new pipework and the existing complete pipe run from fuel storage tank to the fuel dispensing pump(s) must be tested and all documents recorded and stored for the system.

Item	Regulation/ guideline Reference	Description	Completed/ item available	Comment
Tank removal from site				
Experienced/ qualified contractor engaged	EPA requirement	Competency statement/ licenses reviewed		
Contract		Contract in place & signed		
Tank indemnity & release form	AS4976 Sect 5, Sect 8 & Appendix C	Signed forms on file		
Tank Lining				
Experienced/ qualified contractor engaged	EPA requirement	Competency statement/ licenses reviewed		
Contract		Contract in place & signed		
Tank structurally suitable for lining		Report received from tank lining contractor		
Tank lining		Project completion records in place		
		Lining warranty received		
		Ongoing maintenance & inspection recommendations report received		

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Item	Regulation/ guideline Reference	Description	Completed/ item available	Comment
Tank reuse	**NOTE: Steel tanks cannot be relocated for reuse unless lined**			
Repair/ reuse of FRP tanks	AS4897 Sect 9	Tank inspection report from manufacturer approving suitable to reuse		
		Tank inspection report from manufacturer listing remedial work required		
		Remedial action report received		
		EIT results recorded after repairs		
Design				
Design DQP appointed		Competency statement		
Site Environmental classification	AS4897 Sect 2	Site classified or Level 1 equipment adopted		
Fuel system design		Compliance Certificate from DQP		
Fuel System drawing				
Hazard assessment		Hazard Zone drawing		
Fuel Tanker delivery position	ADG & AS1940	Fully on site and vehicle movement complies		
Fuel system hazard zones fully on property	AS60079.10.1	Hazard Zone drawing &/or details of boundary vapour barriers		
Installation				
Experienced/ qualified contractor engaged	EPA requirement	Competency statement/ licenses reviewed		

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Item	Regulation/ guideline Reference	Description	Completed/ item available	Comment
Contract		Contract in place & signed		
Fuel tanks – underground and/ or above ground	Site drawings/ surveyor/ project manager	Excavation &/ or foundation pad in correct position & to correct depth		
	Manufacturer	Delivery check sheet completed		
Fuel tanks – underground and/ or above ground	Manufacturer	Installation check sheet completed		
Fuel tanks – underground	Manufacturer	Tank backfill approved		
Fuel tanks – underground	Project Manager	Tank pit observation wells installed		
Fuel pipework	Manufacturer	Install contractor licensed by supplier/ manufacturer		
	Project Manager	Pipe installation matches drawings & industry specified standards for alignments & grades		
	AS4897 Sect 8.5	Pre bury EIT completed		
	AS4897 Sect 8.5	EIT of tank turrets & under pump sumps		
	AS4897 Sect 8.5	Post paving & construction EIT, prior to fuel delivery to tanks completed		
	Project Manager	Hydraulic integrity of fill point containment equipment tested		

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Item	Regulation/ guideline Reference	Description	Completed/ item available	Comment
Fuel system earthing	AS4897 Sect 4.4	Electrical continuity of earth system tested		
	AS4897 Sect 4.4	Resistance to earth tested		
Groundwater monitoring wells	AS4897 Sect 4.5.7	Wells installed with correct driveway lids/ markings		
		Well locations marked on site fuel system drawings		
Fill & Dip point markers	AS4977	Correct markers installed to the industry standard or site branding requirements		
As-built documents	AS4897 Sect 6.4.3	Fuel system as-built drawings available		
		Fuel system as-built photos available		
	AS4897 Sect 6.4.2	Installation contractor's compliance letter received		
	AS4897 Sect 6.2.2	Fuel system designer final certificate received		
Electrical safety	AS3000	Hazardous area electrical dossier available		Stored in the site electrical switchboard
		Fuel system power isolation Emergency Stop switches tested		Minimum 2 required – 1 at main sales counter in shop & 1 on shop building exterior Additional as required for LPG dispensers & at fuel delivery locations

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8.2C Sample site fuel system maintenance chart

	Site Name	Maintenance Schedule for Fuel Storage & Dispensing Facility Task List											Issued July 2024 Rev 24.1
Task	Task Description	Service Frequency								Ref	Resp.	Checked	Comments
		D	W	M	3M	6M	A	2Y	As Req'd				
1	USTs												
1.1	Tank Integrity test								X	AS4897	MA		As Req'd checks are a part of loss incident investigation process
1.2	Water test - E10 tank (N/A no E10 on site)	X							X		SO		report if water present as **MUST** be removed Always test after sustained and or heavy rain
1.3	Water test - all other fuel tanks		X						X		SO		report if water present as MUST be removed if greater than 25mm Always test after sustained and or heavy rain
1.4	Dip markers correct and legible					X					SO		report if work req'd
1.5	Dip Caps & gaskets			X							SO		report if work req'd
1.6	Check Interstitial space in double-walled tanks check level of liquid or vacuum on pressure gauge as applicable					X					MA		New Double wall AST for diesel only
1.7	Inspect condition of dip stick - damage at base or bent/ check distance to base from ref. mark					X			X		MA		As Req'd checks are a part of loss incident investigation process
1.8	Inspect all vents are clear/ unobstructed & no changes at site/ site vegetation to disrupt air flow around vents					X					MA		
Additional items for Above Ground (AST) Diesel tank			ONLY APPLICABLE ON SITES WITH ASTs										
1.9	walk around visual inspection for leaks			X							SO		report if work req'd
1.10	walk around visual inspection for rust/ damage to paint finish			X							SO		report if work req'd
1.11	walk around visual inspection for panel damage or damage to the access ladders			X							SO		report if work req'd
1.12	check operation of the access doors - seal correctly			X							SO		report if work req'd
1.13	Check for fuel in the bund area at end of tank			X							SO		report if work req'd
1.14	Inspect condition of tank foundations for erosion/ movement/ fuel staining					X					MA		
2	**Tank Fill point / fill box**												
2.1	All box lids Outer/ inner fit correctly and open/ close correctly - not damaged	X									SO		report if work req'd
2.2	Markers correct and legible					X					SO		report if work req'd
2.3	Box is clean & fully drained - no fuel/ water	X									SO		report if work req'd
2.4	Condition of Fill Caps & gaskets - fit tight on fill point			X							SO		report if work req'd
2.5	Brass spin on ring tight on each fill pipe			X							SO		report if work req'd
2.6	Condition of 'rubber' pipe penetration seal is sound			X							SO		report if work req'd
2.7	Box drain valve works correctly/ destination tank label correct & legible			X							SO		report if work req'd

SO	Site Operator
MA	Maintenance Agent
FTD	Fuel delivery Tanker Driver

Example

	Site Name	Maintenance Schedule for Fuel Storage & Dispensing Facility Task List											Issued July 2024 Rev 24.1
Task	Task Description	Service Frequency								Ref	Resp.	Checked	Comments
		D	W	M	3M	6M	A	2Y	As Req'd				
2.8	Tasks 2.1-2.7 incl. every delivery of fuel							every fuel delivery			FTD		report if work req'd
2.9	Service agent repeat tasks 2.1-2.7 incl.					X			X		MA		As Req'd checks item 2.4 is a part of loss incident investigation process
2.10	connection of all continuity straps/ wires					X					MA		
2.11	VR1 connection in fill box - operates correctly					X					MA		
2.12	Inner box hydraulic integrity test						X		X		MA		As Req'd check is a part of loss incident investigation process 2 required as diesel fill in a separate box
2.13	Fill box/ earthing & bonding system electrical continuity test						X				MA		Require specialist contractor support
2.14	Fill box/ earthing & bonding system electrical earth resistance test							X			MA		Require specialist contractor support
3	Fuel pipework												
3.1	Underground fuel pipeline integrity testing								X	AS4897	MA		Note: recommended every 3 years as part of VR testing
3.2	Check all under pump containment sumps - clean dry and pipe/ conduit seals in place and tight						X		X		MA		As Req'd checks are a part of loss incident investigation process
3.3	Check condition of all 'Anaconda' flexible pipes between underground pipes & pump units or braided flexible pipes on pressure system fuel dispensers - check for leaks & correct alignment within manufacturer's limits						X		X		MA		As Req'd checks are a part of loss incident investigation process
3.4	Check condition and operation of isolation and anti-syphon valves					X					MA		
	Pressure fuel system sites		ONLY APPLICABLE ON PRESSURE FUEL SYSTEM SITES										
3.5	Check operation of the STP in each product tank including start on nozzle lift & stop on last nozzle hang-up on the specific product					X			X				
3.6	Check operation of the Leak detector fitted to each STP. Check also for leaks within dispenser & each product nozzle to confirm all operating correctly & not tripping detector					X			X				
3.7	bleed off any vapour inclusions that may have developed in pressure system product pipes to reset leak detector(s)								X				
4	Fuel dispensing pumps												
4.1	Inspect pump for panel and decal damage		X								SO		report if work req'd
4.2	Check all displays are clear and operating no damage/ cracks to the display face		X								SO		report if work req'd
4.3	Check pump head lighting is working		X								SO		report if work req'd
4.4	Check the preset is working (if installed)		X								SO		report if work req'd

Example

	Site Name	Maintenance Schedule for Fuel Storage & Dispensing Facility Task List											Issued July 2024 Rev 24.1
Task	Task Description	Service Frequency								Ref	Resp.	Checked	Comments
		D	W	M	3M	6M	A	2Y	As Req'd				
4.5	Condition of dispenser hoses, scuff guards, and nozzles		X								SO		report if work req'd
4.6	Check all decals for image/ safety/ operating instructions are present and clearly readable		X								SO		report if work req'd
4.7	Repeat items 4.1-4.6					X					MA		
4.8	Check all pump mounting bolts are present and secure					X					MA		
4.9	Check condition and correct operation of the hose mast					X					MA		
4.10	Dispenser inspections – Check internals of dispenser for leaks including fitting located immediately under the dispensing pump connecting with the site fuel pipe system					X			X		MA		As Req'd checks are a part of loss incident investigation process
4.11	Check/ confirm pump authorises and starts on nozzle lift & console authorisation					X					MA		
4.12	Listen to noise of pump & motor operation for each product nozzle supplied					X					MA		
4.13	check tension and condition of pump drive belt					X					MA		
4.14	Dispenser calibration verification								X		MA		As Req'd checks are a part of loss incident investigation process or following work on the unit
4.15	Dispensing pump flow rate - check, if less than 30L/min clean nozzle strainers if less than 20L/min open & clean/ replace the inlet & outlet strainers/ filters in fuel pump unit for the slow product					X					MA		
4.16	Inspect & clean as required each product pump inlet strainer on suction fuel system Inspect & replace as required each product filter on pressure fuel system						X				MA		12 pumping units on site
4.17	Clean nozzle strainers or replace if damaged					X			X		MA		As Req'd part of low flow rate service
4.18	Check condition and operation of nozzle					X					MA		
4.19	For diesel nozzles with hold open latches check for wear and correct operation check not fitted to a pump with sales preset					X					MA		
4.20	Check nozzle spout for leaks					X					MA		
4.21	Check nozzle spout end for damage to the auto shut-off tube & test correct operation of auto shut-off mechanism					X					MA		
4.22	Check condition and operation of the transaction shut-off switch in the nozzle boot or transaction stop switch on pump head					X					MA		
4.23	check condition and operation of nozzle swivel and seals					X					MA		

Example

	Site Name	Maintenance Schedule for Fuel Storage & Dispensing Facility Task List											Issued July 2024 Rev 24.1
Task	Task Description	Service Frequency							Ref	Resp.	Checked	Comments
		D	W	M	3M	6M	A	2Y	As Req'd				
4.24	check condition of break-away for damage and leaks (if installed)					X					MA		
4.25	check hose for damage/ cracks/ touch the ground/ correct storage on pump					X					MA		
4.26	for sites with high mast & extra length hoses for diesel - check mounting of hose not touching ground - check operation of mast retractor system - check hose attachment to the high mast retractor mechanism					X					MA		
	Pumps/ dispensers fitted with VR2												
4.27	Report alarm fault to service technician when VR2 alarm occurs	X									SO		report as soon as alarm occurs
4.28	Inspect condition & check correct operation of all VR2 components in nozzles & hoses					X					MA		repair as required or report to VR2 specialist for action
4.29	Inspect/ confirm operation of all VR2 alarm equipment					X					MA		repair as required or report to VR2 specialist for action
4.30	Inspect & review all VR2 alarm logs on ATG console					X					MA		repair as required or report to VR2 specialist for action
5	Monitoring wells												
5.1	GWMW Sample observation					X					MA		3 wells on site work by specialist consultant
5.2	GWMW Sample and Analysis Report					X					MA		
5.3	Tank Pit Observation Wells - sample observation								X				report if product found in well
6	Other forecourt safety items												
6.1	Condition of Safety signage					X					MA		
6.2	Check function of emergency stop buttons					X					MA		
6.3	Fire extinguishers are in place at all marked locations & correct type			X							SO		report if work req'd
6.4	FE signs & markers are in good condition/ legible			X							SO		report if work req'd
6.5	Condition of fire extinguishers					X					MA		Require specialist contractor support
6.6	Check forecourt drains & pits - clear of debris & drain completely	X									SO		N/A no forecourt drainage system
6.7	Repeat of item 6.6 as part of PMP visit					X					MA		N/A no forecourt drainage system

Example

	Site Name	Maintenance Schedule for Fuel Storage & Dispensing Facility Task List											Issued July 2024 Rev 24.1
Task	Task Description	Service Frequency								Ref	Resp.	Checked	Comments
		D	W	M	3M	6M	A	2Y	As Req'd				
	***** (manufact'r) - CSP type effluent Treatment system		CUSTOMISE & use line items 6.8 to 6.14 as applicable to system installed										
6.8	Check operation of float switches and alarm panel					X			X		MA		
6.9	Check depth of sediment in holding pit. If more than 150mm deep arrange for sediment to be sucked out and disposed of off site via an authorised contaminated waste facility					X					MA		Remove as required
6.10	Check depth of oily waste layer in holding pit. If more than 50mm deep arrange for oil/fuel residue to be sucked out and disposed of off site via an authorised contaminated waste facility												use water finding past on a dip stick to determine depth of fuel/ oil layer in the pit.
6.11	Complete all manufacturer recommended service tasks as per product Maintenance Manual												Require specialist contractor support
6.12	Check level of/ operation of oil skimmer in Coalescing plate separator					X					MA		Adjust as required to capture oil/ fuel with minimal water
6.13	Check level of oil in separator holding container					X					MA		Drain container & dispose of collected oil/ fuel waste as required or remove/ replace container as required
6.14	Check silt build-up in the CSP tank					X					MA		Drain/ remove as required
	SPEL Puraceptor forecourt effluent treatment unit										MA		Refer SPEL & unit Operation/ Maintenance Manual for further support
6.8	Check operation of level sensors & alarm panel					X			X		MA		Require specialist SPEL authorised contractor support
6.9	Extract the alarm senser probe from the protection tube, wipe clean & return to installed position					X			X		MA		
6.10	Confirm the auto shut-off system (ACD) operates					X					MA		Specialist SPEL authorised contractor support may be required
6.11	Inspect condition of final polishing filter media - wash at normal water pressure in contained area that drains back to separator					X			X		MA		Clean/ replace as required As required inspect/ clean occurs following spill event that triggers auto shut-off of system
6.12	Check depth of sediment in Chamber 1. If more than 150mm deep arrange for sediment to be sucked out and disposed of off site via an authorised contaminated waste facility					X			X		MA		
6.13	Check depth of oily waste layer in Chamber 1. If more than 50mm deep arrange for oil/fuel residue to be sucked out and disposed of off site via an authorised contaminated waste facility					X			X		MA		

Example

	Site Name	Maintenance Schedule for Fuel Storage & Dispensing Facility Task List										Issued July 2024 Rev 24.1
Task	Task Description	Service Frequency							Ref	Resp.	Checked	Comments
		D	W	M	3M	6M	A	2Y	As Req'd			
6.14	After pump out of sediment &/or oily fuel residue is completed remove, clean & reinstall the ACD unit. Adjust water level in separator unit to ensure ACD floats correctly								X		MA	Specialist SPEL authorised contractor support may be required

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8.3 Fuel System Record Keeping Check List – Extract from AS4897

APPENDIX C

SUMMARY OF CERTIFICATION AND RECORD-KEEPING REQUIREMENTS

(Normative)

Clause	Record/Certification	Originator	Keeper	Time
CLASSIFICATION OF SITES				
2.2	All information used to assign the site classification including all testing information and results	Competent and experienced person	Owner	Life
DESIGN OF EQUIPMENT OR UPS SYSTEMS				
4.2.1	In terms of the protection of the environment and human health and safety, the tank is at least equivalent to Clause 4.2.1(b)	Tank manufacturer	Owner	Life
4.3.1	In terms of the protection of the environment and human health and safety, the product piping is at least equivalent to Clause 4.3.1(c)	Piping manufacturer	Owner	Life
4.5.1	A written description of the routine operation, maintenance and service requirements	Leak monitoring system equipment manufacturer	Owner	Life
4.5.4	All records relating to the certification of the method, performance standard and operational requirements of SIA	SIA equipment manufacturer	Owner	Life
6.2.2	Compliance with Clause 6.2.2.3 (a), (b) and (c)	UPS system designer	Owner	Life
INSTALLATION OF EQUIPMENT OR UPS SYSTEMS				
4.2.2(b)	The installation complies with the requirements of AS 2832 Parts 1 and 2 and Clause 4.2.2 of this Standard	Corrosion specialist	Owner	Life
4.3.2(b)	The installation complies with the requirements of AS 2832 Parts 1 and 2 and Clause 4.3.2 of this Standard	Corrosion specialist	Owner	Life
4.4.4	Resistance to Earth tested at the time of installation	Competent and experienced person	Owner	Life
4.5.7.2(a)(iii)	The requirements of Clause 4.5.7 have been met	Competent and experienced person	Owner	Life
6.4.2	The requirements of Clause 6.4.2.1 have been met	Owner	Owner	Life
6.4.2	Compliance with Clause 6.4.2.2	Installation contractor	Owner	Life
6.4.3	As-built drawings	Installation contractor	Owner	Life

Clause	Record/Certification	Originator	Keeper	Time
OPERATION OF UPS SYSTEMS				
7.3.1	Inventory control records	Operator	Operator	2 years
7.4	Inventory control records	Operator	Operator	2 years
MAINTENANCE AND TESTING OF UPS SYSTEMS				
8.3.1	Records of the maintenance, inspection and testing of the cathodic protection system	Owner/Operator/Corrosion specialist	Operator and/or Owner	Life
8.4	Records of all leak monitoring system checks, inspections and tests	Owner/Operator/Competent and experienced person	Operator and/or Owner	2 years
8.5.1	EIT certification	EIT competent and experienced person	Owner	Life
8.5.2	Records of EIT	Owner	Owner	Life
9.3.1	Records required by Clause 9.3 relating to certification, repair and testing of the equipment	Competent and experienced person/Installation contractor/Equipment manufacturer	Owner	Life
REPAIR OR RE-USE OF EQUIPMENT				
9.2.2.1	The tank is suitable for repair and complies with Items (a)–(f) of Clause 9.2.2.1.2	Competent and experienced person	Owner	Life
9.2.2.1.2	The tank meets the requirements of Clause 9.2.2.1.2	Competent and experienced person	Owner	Life
9.2.2.2	The tank has been repaired in compliance with the tank manufacturer's instructions.	Tank manufacturer	Owner	Life
9.3.2 (a)	The tank complies with Clause 4.2.1 and a warranty appropriate for the expected life of the UPS system has been provided	Tank manufacturer	Owner	Life
9.3.3 (b)	The tank is suitable for re-use, and that it complies with Items (i)–(iv)	Tank manufacturer	Owner	Life

In addition to the site installation, maintenance and ongoing operation records for the fuel system equipment all leak and/ or spill incidents must be recorded and reported to Council and/ or the state EPA or their delegate.

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APPENDIX 1: UPSS and associated fuel storage and dispensing system Australian Standards and other industry References

Australian Standards

AS 1940 Storage and Handling of Flammable and Combustible Liquids

AS 4897 Design, Installation and Operation of Underground Petroleum Storage Systems

AS 4976 The removal and disposal of underground petroleum storage tanks

AS 4977 Petroleum products – Pipeline, road tanker compartment and underground tank identification

AS/NZS IEC 60079.10.1 (including Supplement 1)

Explosive atmospheres Classification of areas - Explosive gas atmospheres

AS/NZS 1596 The storage and handling of LP Gas

AS/NZS 3000 Electrical installations (known as the Australian/New Zealand Wiring Rules)

Australian Industry Skills Competency Modules

TLIX0022 Decommission fuel storage and dispensing systems

TLIX0024 Install, modify and commission fuel storage and dispensing systems

TLIX0025 Maintain fuel storage and dispensing systems

TLIX0026 Work in compliance with fuel storage and dispensing site requirements

TLIX0027 Work safely at a fuel storage and dispensing site

Industry Code of Practice

PICA RP 001 Recommended practices for installation of Underground Petroleum Storage Systems (excluding Aviation fuel installations)

APPENDIX 2: UPSS and associated fuel storage and dispensing system Guideline support documents by Australian State and Territory

State/Territory	Regulating Authority	Relevant Reference documents
NSW	NSW EPA	UPSS Guidelines for implementing the PoEO UPSS Regulation, 2019 Fact Sheet 2 – Loss monitoring systems Fact Sheet 3 – Leak detection systems Fact Sheet 5 – UPSS obligations Fact Sheet – Decommissioning an underground petrol storage tank system UPSS Technical Note: Site Validation Reporting Practice Note Managing run-off from service stations Standards and Best Practice Guidelines for Vapour Recovery at Petrol Service Stations
Victoria	EPA Victoria	Publication 888.4 (2015) - The design, installation and management requirements for underground petroleum storage systems (UPSS)
Queensland	Workplace Health and Safety Queensland	A guide for service station operators
	Brisbane City Council	City Plan 2014 Part 9 Development Codes Section 9.3.21 Service station code
South Australia	EPA SA	Primary noted references are to Australian Standards AS4897 & AS1940
Western Australia	Department of Mines Industry Regulation and Safety	Approval of consultants to assess and endorse dangerous goods site licence applications – guide GUIDE Dangerous goods safety matters – self check guide for petrol stations
Tasmania	EPA Tasmania	Environmental Management & Pollution Control (UPSS) Regulations 2020 Underground Fuel Tanks link on the EPA website.
Northern Territory	NT EPA	
ACT	ACT EPA	Environmental Guidelines for Petroleum Storage in the ACT, June 2019

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9. Signatory Acknowledgment

We, the undersigned, acknowledge that we have read, understood, and agreed to abide by the **Code of Practice for Fuel Storage and Dispensing Systems.**

By signing this document, we commit to full compliance with the requirements outlined herein.

Signatory Name	Company/Organisation	Position	Date	Signature