



# EPTEC DEFENCE SOLUTIONS

## CAPABILITY STATEMENT

**When Risk Matters!**

Asset Preservation & Rehabilitation



# INTRODUCTION

Eptec is an Australian owned specialist in Defence & Infrastructure Solutions, providing services in Asset Preservation and Rehabilitation.

Our marine expertise is in engineered solutions using resin technology, to provide preservation, corrosion protection, thermal insulation and glass reinforced composites across a range of projects.

Eptec's scope is inclusive of the blasting and painting of ship units/blocks, unit/block consolidation, compartment completion and future maintenance, alongside or in-dock.

We are positioned to deliver projects in all States and Territories with offices across Australia, and a core workforce of over 300 direct employees. The workforce comprises of managers and qualified engineers, supported by experienced supervisors and permanent staff.

Eptec's strength is the use of our own direct workforce rather than reliance on subcontractors. With skills developed over decades, Eptec guarantees highly responsive, flexible and committed teams, ready to undertake projects in even the most remote areas.

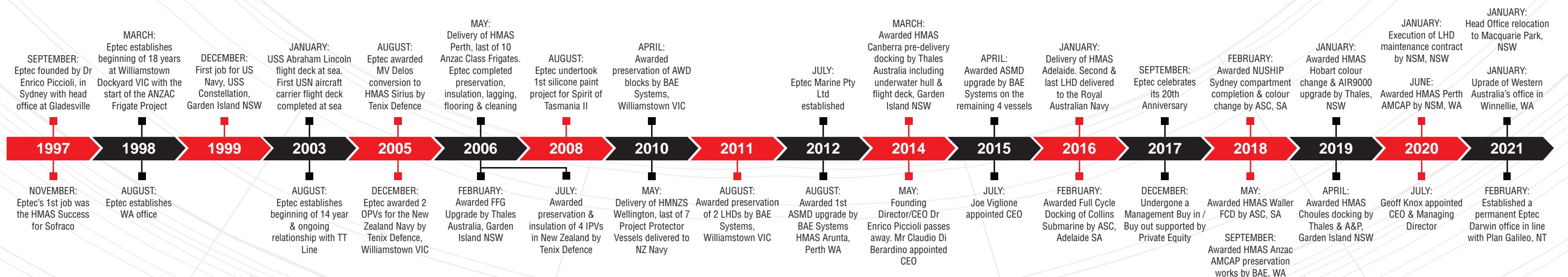
## Key Services

- Acoustic, Fire & Thermal Insulation
- Fibre Reinforced Plastics
- Industrial & General Cleaning Services
- Ballistic Protection Coating
- Preservation
- High Risk Rescue Service
- Corrosion Protection
- Project Management
- Work Force Hire
- Deck Coverings
- Temporary Floor Protection

## The Key To Everything We Do Is:

- Health and safety of our employees and stakeholders
- On time delivery
- Environmental consideration and management
- On budget delivery
- Delivery of quality services exceeding specified requirements

Image © Department of Defence





# ABOUT EPTEC

Eptec's professionalism, reliability and success can be measured by the return business from many clients including owners and primes.

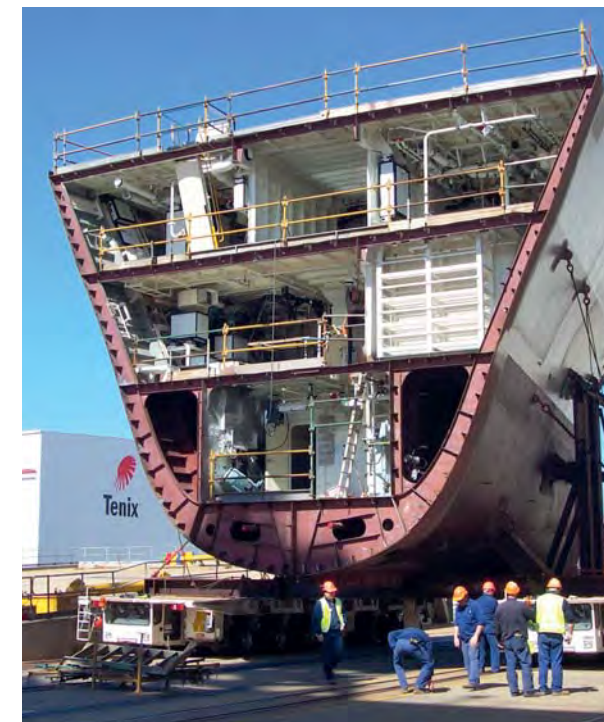
## About Eptec

Eptec has over 20 years' experience as Australia's largest and leading preservation contractor to the Australian Navy, US Navy and NZ Navy. Eptec has also extended this service to include sheet metal work, ship furniture and pipe work of both naval and commercial vessels.

Specifically, Eptec is the only specialised preservation contractor with over 3,000,000 man hours experience and capability for new ship build work.

Eptec has further applied its knowledge and expertise in reinforced plastic composites to the marine environment in the design and fabrication of the mast access platforms for the 10 Anzac Frigates.

Eptec has also undertaken work on a significant number of naval and commercial vessels both in dock and alongside, throughout Australia.



## Eptec's Prime Contractors Include:

- A & P Australia
- ASC
- ASP Ship Management Group
- Austal
- BAE Systems (formerly Tenix Defence)
- Forgacs (now Civmec)
- Harbour City Ferries
- Mermaid Marine Australia
- Noakes
- NSM (Naval Ship Management) Australia
- P&O, Carnival
- Rolls Royce Marine Australia
- Royal Australian Navy (RAN)
- Royal New Zealand Navy (RNZN)
- Serco (formerly DMS)
- Svitzer Australia
- Thales Australia (formerly ADI)
- TK Shipping
- TT Line Company
- United Group Infrastructure (formerly UGL)
- United States Navy (USN)

## Eptec's Involvement

### Third Party Certifications:

- AS/ NZS ISO 9001 Quality Management Systems
- AS/NZS 4801 Occupational Health & Safety Management System
- AS/NZS ISO 14001 Environmental Management System
- PCCP Class 1-4; Class 5A & 5B; Class 6



### Memberships to Industry Associations:

- Australasian Corrosion Association (ACA)
- Australian Industry Defence Network (AIDN)
- Australian Industry Group (AIG)
- Australian Institute of Protective Coatings (AIPC)
- Australian Shipbuilders Association (ASA)
- Australian Ship Repairers Group (ASRG)
- Defence Teaming Centre (DTC)
- Industry Capability Network (ICN)





# NEW BUILD

Eptec completed the following new build projects and is the only Australian specialist preservation contractor with this experience.

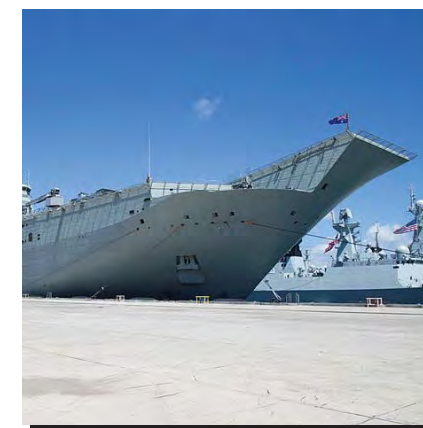
- ANZAC Frigate Program
- Project Protector
- AWD Blocks
- LHDs
- Various Commercial Vessels

## New Build - Canberra Class LHD (Landing Helicopter Dock)

### LHD (Landing Helicopter Dock)

BAE Systems contracted Eptec to provide all blasting and painting services and deck coatings, from block stage to ship consolidation at their Williamstown, Victoria facility. Eptec also undertook the pre-delivery docking works on both vessels at Garden Island East in Sydney, including underwater hull, topsides, and flight deck coating.

Image © Department of Defence



### HMAS Canberra Landing Helicopter Dock (LHD) Project

**Commissioned Date:** 28 November 2014

**Location:** Williamstown, VIC ; Sydney, NSW

**Client:** BAE Systems & Thales Australia

**Scope of Work:** Abrasive blasting & application of protective coatings to the modules for the construction of the Landing Helicopter Dock ships (LHDs), consolidation of works and pre-delivery docking.

### HMAS Adelaide Landing Helicopter Dock (LHD) Project

**Commissioned Date:** 4 December 2015

**Location:** Williamstown, VIC ; Sydney, NSW

**Client:** BAE Systems & Thales Australia

**Scope of Work:** Abrasive blasting & application of protective coatings to the modules for the construction of the Landing Helicopter Dock ships (LHDs), consolidation of works and pre-delivery docking.



Image © Department of Defence



## New Build - Project Protector

### Project Protector

Eptec was commissioned to carry out blasting, painting, deck covering & insulation on Project Protector for the Royal New Zealand Navy. This project comprised of four new build 55m Inshore Patrol Vessels (IPV) and two new build Offshore Patrol Vessels (OPV).

Services provided to the Project Protector vessels included:

- Preservation (blasting/painting) of ship blocks
- Block consolidation
- Compartment completion
- Flooring and deck covering
- Thermal, fire and acoustic insulation
- HVAC lagging and intake/uptake insulation
- Pipe lagging
- Ship cleaning

For this project, Eptec established specific site facilities including office, amenities and accommodation at the Williamstown site in Victoria and Whangarei in New Zealand.



Image © New Zealand Defence Force



### HMNZS Rotoiti IPV1

**Commissioned Date:** 17 April 2009

**Location:** Whangarei, New Zealand

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Abrasive blasting/painting from ship block stage to vessel consolidation, compartment completion and pre-delivery docking. Application of insulation, lagging and cladding to vessel systems and compartments. Post block preservation during consolidation and afloat.

### HMNZS Hawea IPV2

**Commissioned Date:** 1 May 2009

**Location:** Whangarei, New Zealand

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Abrasive blasting/painting from ship block stage to vessel consolidation, compartment completion and pre-delivery docking. Application of insulation, lagging and cladding to vessel systems and compartments. Post block preservation during consolidation and afloat.



### HMNZS Otago OPV1

**Commissioned Date:** 18 February 2010

**Location:** Williamstown, VIC

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Abrasive blasting/painting from ship block stage to vessel consolidation, compartment completion and pre-delivery docking. Application of insulation, lagging and cladding to vessel systems and compartments. Post block preservation during consolidation and afloat.



### HMNZS Pukaki IPV3

**Commissioned Date:** 6 May 2009

**Location:** Whangarei, New Zealand

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Abrasive blasting/painting from ship block stage to vessel consolidation, compartment completion and pre-delivery docking. Application of insulation, lagging and cladding to vessel systems and compartments. Post block preservation during consolidation and afloat.

### HMNZS Wellington OPV2

**Commissioned Date:** 6 May 2010

**Location:** Williamstown, VIC

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Abrasive blasting/painting from ship block stage to vessel consolidation, compartment completion and pre-delivery docking. Application of insulation, lagging and cladding to vessel systems and compartments. Post block preservation during consolidation and afloat.



### HMNZS Taupo IPV4

**Commissioned Date:** 29 May 2009

**Location:** Whangarei, New Zealand

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Abrasive blasting/painting from ship block stage to vessel consolidation, compartment completion and pre-delivery docking. Application of insulation, lagging and cladding to vessel systems and compartments. Post block preservation during consolidation and afloat.





# ANZAC FRIGATES

Eptec was commissioned by Tenix Defence (now BAE Systems) to carry out preservation and insulation on the new build ANZAC Frigates.

Execution of works at the Williamstown shipyard required close management and cooperation of all stakeholders including Navy, prime contractor and other contractors on site.

Works involved a wide range of activities including:

- Preservation (blasting/painting) of ship blocks
- Block consolidation
- Compartment completion
- Design and fabrication of composite structures
- Sheet metal work and fit out in-situ
- Flooring and deck covering
- Pipe lagging
- Thermal, fire and acoustic insulation
- Ballistic protection coating
- HVAC lagging and intake/uptake insulation
- Ship cleaning



Image © Department of Defence

## New Build - ANZAC Frigates



### HMAS Anzac (150) \*

**Commissioned Date:** 18 May 1996

**Location:** Williamstown, VIC

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Abrasive blasting/painting from ship block stage to vessel consolidation, compartment completion and pre-delivery docking. Application of insulation, lagging and cladding to vessel systems and compartments. Post block preservation during consolidation and afloat.

### Te Kaha (F77) \*

**Commissioned Date:** 22 July 1997

**Location:** Williamstown, VIC

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Abrasive blasting/painting from ship block stage to vessel consolidation, compartment completion and pre-delivery docking. Application of insulation, lagging and cladding to vessel systems and compartments. Post block preservation during consolidation and afloat.



### HMAS Arunta (151)

**Commissioned Date:** 12 December 1998

**Location:** Williamstown, VIC

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Abrasive blasting/painting from ship block stage to vessel consolidation, compartment completion and pre-delivery docking. Application of insulation, lagging and cladding to vessel systems and compartments. Post block preservation during consolidation and afloat.

### Te Mana (F111)

**Commissioned Date:** 10 December 1999

**Location:** Williamstown, VIC

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Abrasive blasting/painting from ship block stage to vessel consolidation, compartment completion and pre-delivery docking. Application of insulation, lagging and cladding to vessel systems and compartments. Post block preservation during consolidation and afloat.



\* Worked on by Eptec Personnel



## New Build - ANZAC Frigates



### HMAS Warramunga (152)

**Commissioned Date:** 31 March 2001

**Location:** Williamstown, VIC

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Abrasive blasting/painting from ship block stage to vessel consolidation, compartment completion and pre-delivery docking. Application of insulation, lagging and cladding to vessel systems and compartments. Post block preservation during consolidation and afloat.



### HMAS Toowoomba (156)

**Commissioned Date:** 10 October 2005

**Location:** Williamstown, VIC

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Abrasive blasting/painting from ship block stage to vessel consolidation, compartment completion and pre-delivery docking. Application of insulation, lagging and cladding to vessel systems and compartments. Post block preservation during consolidation and afloat.

### HMAS Stuart (153)

**Commissioned Date:** 17 August 2002

**Location:** Williamstown, VIC

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Abrasive blasting/painting from ship block stage to vessel consolidation, compartment completion and pre-delivery docking. Application of insulation, lagging and cladding to vessel systems and compartments. Post block preservation during consolidation and afloat.



### HMAS Perth (157)

**Commissioned Date:** 26 August 2006

**Location:** Williamstown, VIC

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Abrasive blasting/painting from ship block stage to vessel consolidation, compartment completion and pre-delivery docking. Application of insulation, lagging and cladding to vessel systems and compartments. Post block preservation during consolidation and afloat.



### HMAS Parramatta (154)

**Commissioned Date:** 4 October 2003

**Location:** Williamstown, VIC

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Abrasive blasting/painting from ship block stage to vessel consolidation, compartment completion and pre-delivery docking. Application of insulation, lagging and cladding to vessel systems and compartments. Post block preservation during consolidation and afloat.



### Mast Access Platforms

**Project Date:** 2002

**Location:** Greenacre, NSW

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Innovative design, fabrication & manufacture of FRP mast access platforms for the ANZAC Frigate Project.

### HMAS Ballarat (155)

**Commissioned Date:** 26 June 2004

**Location:** Williamstown, VIC

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Abrasive blasting/painting from ship block stage to vessel consolidation, compartment completion and pre-delivery docking. Application of insulation, lagging and cladding to vessel systems and compartments. Post block preservation during consolidation and afloat.





# CONVERSIONS & MAINTENANCE

Eptec has been the leading provider of maintenance services to the Royal Australian Navy and US Navy on highly demanding naval defence work undertaken within Australia. We also provide maintenance and preservation services to all classes of commercial vessel.

Works have involved a wide variety of activities including:

- Abrasive blasting (wet or dry)
- Ultra high pressure hydro blasting up to 40 000 psi (UHP)
- Application of protective coatings
- Deck coating replacement including non-skid
- Deck covering, epoxy, vinyl tiles, carpets, etc
- Refurbishment of tanks-freshwater, ballast, fuel, grey
- Mechanical cleaning
- Chemical surface preparation
- Encapsulation
- Silicone antifouling
- Zinc chromate, coal tar epoxy, lead removal (hazardous coating removal)



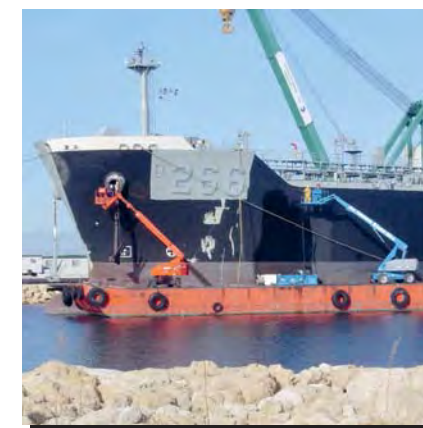
## Conversion - MV Delos to HMAS Sirius



BEFORE  
(as MV Delos)



AFTER  
(Conversion into HMAS Sirius)



### MV Delos to HMAS Sirius Conversion

**Project Date:** 2003

**Location:** Perth, WA

**Client:** Tenix Defence / BAE Systems

**Scope of Work:** Conversion of a commercial vessel into a Defence supply vessel. All corrosion protection; works included in-situ conversion of a commercial coating system to defence standards.

### HMAS Sirius Maintenance

**Project Date:** 2006 - Current

**Location:** Perth, WA

**Client:** ASP Ship Management Group

**Scope of Work:** Abrasive blasting or hydro-blasting and preservation of external hull, infrastructure and deck, as well as tanks. This was carried out both afloat and in dock.





## Maintenance - Significant Projects



### Collins Class Full Cycle Docking

**Project Date:** 2016 - Current

**Location:** Adelaide, SA

**Client:** ASC

**Scope of Work:** Full blast & paint of Collins Class submarine. Abrasive blasting of hazardous coatings on tanks, machinery bilges and submarine externals.



### Landing Helicopter Docks (Canberra Class)

**Project Date:** 2015 - Current

**Location:** Sydney, NSW

**Client:** BAE Systems

**Scope of Work:** Surface preparation and application of protective coatings to underwater hull, hull above water, superstructure, external/internal decks, tanks, compartments and passageways.

### FFG Frigate Upgrade Project

**Project Date:** 1998 - Current

**Location:** Sydney, NSW

**Client:** Thales Australia (formerly ADI)

**Scope of Work:** Preparation & coating of external hull, decks & internal areas, hazardous (zinc-chromate) coating removal. This included HMAS Melbourne, HMAS Newcastle, HMAS Darwin and former HMAS Adelaide and HMAS Sydney.



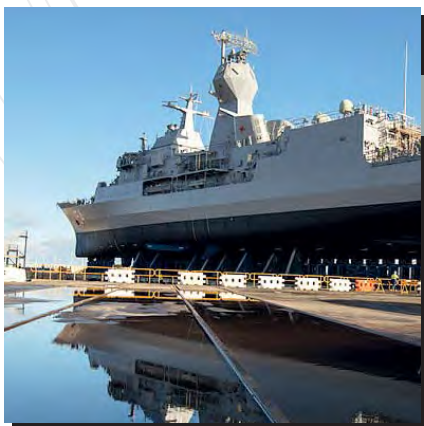
### Patrol Boats Armidale Class

**Project Date:** 1998 - Current

**Location:** Darwin, SA ; Sydney, NSW ; Henderson WA

**Client:** Serco (Formerly DMS), Thales Australia, Austal

**Scope of Work:** Surface preparation and application of protective coatings to underwater hull, hull above water, superstructure, external/internal decks, tanks and compartments.



### ASMD (Anti-Ship Missile Defence) Project on ANZAC Fleet

**Project Date:** 2012 - 2017

**Location:** Henderson, WA

**Client:** BAE Systems

**Scope of Work:** The ANZAC fleet has been extensively upgraded as part of the ASMD Project. Works involved complete blast & paint of all external areas including hull, superstructure and decks for HMAS Anzac, Arunta, Ballarat, Parramatta, Perth, Stuart, Toowoomba & Warramunga.



### US Aircraft Carriers

**Project Date:** 2003

**Location:** Fremantle, WA

**Client:** US Navy

**Scope of Work:** UHP blasting, abrasive blasting, painting, flight deck non-skid replacement and encapsulation on US aircraft carrier USS Abraham Lincoln.

### Supply Ships

**Project Date:** 1997- Current

**Location:** Sydney, NSW

**Client:** Rolls Royce Marine, ASP Ship Management Group, A & P Australia, Thales Australia

**Scope of Work:** Works involve complete blast and paint for vessels HMAS Sirius, Success, Tobruk, Choules.



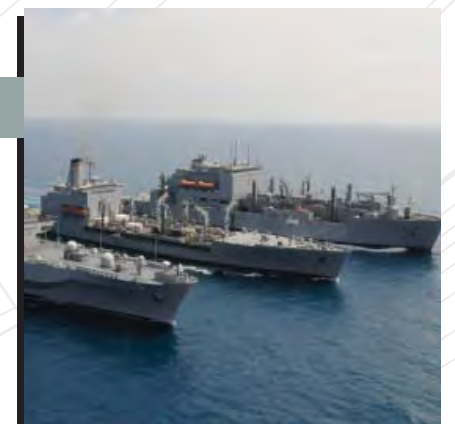
### USS Fleet Vessels

**Project Date:** 1999 - 2006

**Location:** Sydney, NSW ; Mackay, QLD ; Perth, WA

**Client:** US Navy

**Scope of Work:** Hull and deck preservation. Vessels included the USS Blue Ridge, USS Constellation, USS Shiloh, USS Thach, USS Paul F Foster.





# COMMERCIAL VESSEL MAINTENANCE



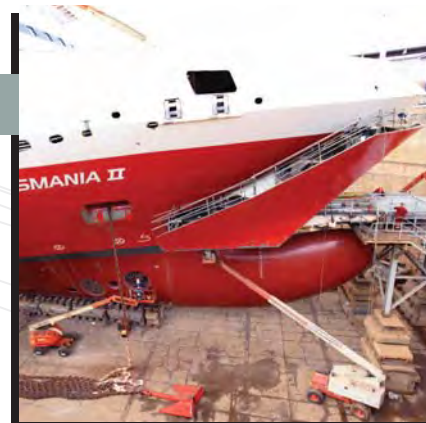
## Spirit of Tasmania I & II

**Project Date:** 2003 - Current

**Location:** Sydney, NSW ; Melbourne, VIC

**Client:** Thales Australia, TT Line

**Scope of Work:** Surface preparation and coating of deck and external surfaces, silicone foul release coating to underwater hull, superstructure, topsides.



## Maintenance - Significant Projects



### Cruise Ships - P&O, Carnival

**Project Date:** 2014 - Current

**Location:** Sydney, NSW ; Brisbane, QLD

**Client:** Thales Australia, Forgacs

**Scope of Work:** Corrosion protection of underwater hull, boot top, sea chests, topsides & superstructure, water blasting, abrasive blasting, mechanical cleaning. Application of coatings via airless spray and power roller.

### Ferries

**Project Date:** 2009 - Current

**Location:** Sydney, NSW

**Client:** Thales Australia, Harbour City Ferries, Austal

**Scope of Work:** Corrosion protection of underwater hull, boot top, sea chests, topsides & superstructure, water blasting, abrasive blasting, mechanical cleaning. Application of coatings via airless spray and power roller.



### Work Boats (Tugs/Trawlers)

**Project Date:** 1998 - Current

**Location:** Perth, WA ; Dampier, WA ; Sydney, NSW ; Williamstown, VIC

**Client:** Mermaid Marine Australia, Austal, DMS Maritime, Svitzer

**Scope of Work:** Corrosion protection of underwater hull, boot top, sea chests, topsides & superstructure, water blasting, abrasive blasting, mechanical cleaning. Application of coatings via airless spray and power roller.

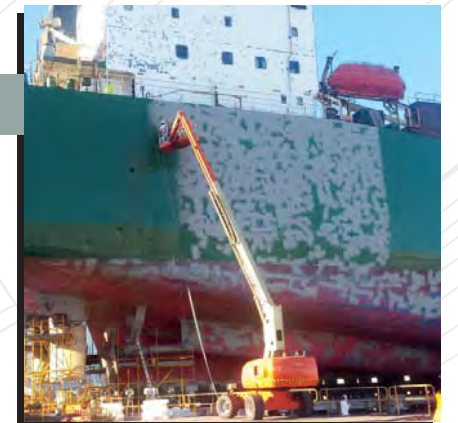
### Cargo Vessels

**Project Date:** 1998 - Current

**Location:** Sydney, NSW ; Henderson, WA

**Client:** Thales Australia, BAE Systems

**Scope of Work:** Corrosion protection of underwater hull, boot top, sea chests, topsides & superstructure, water blasting, abrasive blasting, mechanical cleaning. Application of coatings via airless spray and power roller.







**Eptec Defence Solutions**

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