

Australian Marine Technologies



Support to Major Acquisition Projects

AMT supports major acquisition projects for the complete project life-cycle. AMT provides the LHD Program with Project Assurance and Engineering Support Services and has a long and similar history with the HMAS WESTRALIA Replacement and the HMAS SUCCESS Replacement Programs.



Australian Marine Technologies is an independent and wholly Australian owned design consultancy with significant demonstrable engineering experience in the naval domains and a thorough understanding of the DMO and RAN requirements. AMT's capability is applied to a range of maritime acquisition programs within Australia, within the region and beyond.

Project JP 2048 Phase 4A/4B will enhance the ADF amphibious capability by the replacement of HMAS TOBRUK and one Landing Platform Amphibious (LPA) ship with two 27,000 tonne Navantia designed Landing Helicopter Dock (LHD) ships under the LHD Prime Contract with BAESA.

For the LHD Project, the Commonwealth engaged AMT to provide its services as an independent design and engineering agency to:

- provide independent engineering analysis to assist the Project Office in gaining a high degree of confidence that design solutions presented by the LHD Prime Contractor are compliant with prescribed requirements and industry best practice; and
- satisfy CNE design assurance requirements under the Naval Technical Regulatory System, leading to Design Certification and Initial Operational Release of the ships.

Activity undertaken under this Contract has included review of contract documentation and attendance at reviews, risk assessment activities and specialist input into electrical and aviation areas.

The nature of the support activity has typically evolved as the Contract proceeds and further design definition is provided. For the HMAS Westralia Replacement project DMO engaged AMT to provided design support services to produce a Specification for a commercial tanker that could be used as the most cost and time

effective basis for conversion to a role of RAN fleet tanker (Auxiliary Oiler).

This involved the review of RAN operational and regulatory requirements as specified in the Maritime Operations Support Capability (MOSC) FPS in conjunction with a detailed review and understanding of classification society regulations and the identification of the major changes required.

The AMT Base Ship Specification was utilised by the Commonwealth in its search for a suitable commercial tanker. AMT supported DMO in reviewing a number of potential options, advising on their suitability.

As a result of the search, the Commonwealth selected and purchased the MT Delos as the base ship for modification to replace HMAS Westralia as HMAS Sirius. AMT's ability to provide whole-of-ship domain expertise (Hull, Mechanical, Electrical and Combat Systems) has assisted the Commonwealth in providing a complete picture of the impacts and cross-functional effects of proposed capability solutions.

With AMT's ability to propose alternative solutions that maximise value for money and capability to the Commonwealth, while



leveraging off work already undertaken in other classes of ships, AMT is a valuable member of any Capability Development team.