

Australian Marine Technologies



Capability Development Support

AMT's domain expertise in the naval ships and systems market has enabled it to support the Capability Development function of Defence, in the HMAS SUCCESS Replacement Options Study, the HMAS Westralia Replacement Support Studies and the AWD Function and Performance Specification.

Over many years Australian Marine technologies has supported the Australia's Defence Capability Development group in a range of studies and engineering support activities.

AMT was contracted by the Defence Capability group to undertake an Options Study into the Replacement of HMAS SUCCESS. The study considered a broad range of design options including variants of new designs, 'clean sheet' designs, designs based on an existing platforms and designs developed from current concept designs, each considering construction overseas or in Australia.

AMT's HMAS SUCCESS Replacement Options Study provided indicative costs and timeframes for various acquisition options for ships that meet most or all of the technical attributes for the capability required. The broad acquisition options considered were:



- A purpose designed ship to meet the full requirements for the desired capability;
- An existing designed and built ship, proven in service;
- An existing designed ship that could be modified in the design stage to meet the technical parameters in a cost effective way; and
- Conversion of an existing commercial vessel to meet the required technical parameters.

For the HMAS Westralia Replacement study, AMT provided design support services developed the Specification of a commercial tanker that could be used as the most cost and time effective

basis for conversion to the role of RAN fleet tanker (Auxiliary Oiler). This involved the review of RAN operational and regulatory requirements as specified in the Function and Performance Specification (FPS) in conjunction with a detailed review and understanding of classification society regulations and the identification of the major changes required.

AMT's activity was extended to provide further acquisition support producing a Base Ship Specification, a Preliminary List of Modifications and associated cost estimates as well as



Specifications for typical work packages for the subsequent conversion.

AMT further assisted the Commonwealth in its process of purchasing the MT Delos as the base ship for modification to become the HMAS Westralia replacement.

To provide effective technical acquisition support to the Navy's Capability Development group, an organisation must possess the relevant engineering and program expertise across the Hull, Mechanical, Electrical and Combat Systems field, a thorough understanding of the Capability Development process, requirements and constraints, and the statutory, regulatory and operational environment in which the new capability will operate.

AMT has strong expertise in all of these necessary areas, with a long history now of supporting the early acquisition phases of major projects in support of future naval capability.