

# Australian Marine Technologies



## In Service Support (ISS)

AMT provides a full range of design and engineering support to any organisation engaged in the In-Service Support (ISS) of naval, commercial and support vessels. This ranges from Needs and Requirements Analyses for configuration changes, Engineering Assessment and Design to Installation Work Packages produced to implement configuration changes.

As ships age or technology changes there is an ongoing process to maintain and enhance the operational effectiveness and capability of the vessels. In-Service Support (ISS) is a management process to plan for and respond to Navy's requests in its efforts to maintain its ships in a sea going condition, with a fully functional capability. This Process involves the maintenance of ship structure, systems and support both onboard and ashore, also supporting Navy personnel in managing and implementing the maintenance of its assets.

AMT has contracted for ISS for the ANZAC Class, for the FFG7 Class, for Fremantle Class Patrol Boats, the LPAs, HMAS Tobruk, Auxiliary Oiler and AOR, the MHCs, SMLs, LCHs STS Endeavour and the RAN Hydrographic Ships. As a support subcontractor to various ISS direct support contractors, AMT has investigated, analyzed and made recommendations on deficiencies or enhancements for a multitude of activities through a wide range of tasking models and task complexities for individual problems or minor changes through to complete systems overhaul or replacement.

AMT's activity typically involves technical investigations, requirements analysis concept design and detail design for implementation, leading to the production of comprehensive Installation Work Packages for shipbuilder application. As examples, over the past 10 Years AMT has provided its in-service design support to the following classes of Naval ships.



- ANZAC Class Provided Requirements Analysis for nearly 200 individual configuration changes, and design and installation work packages for a multitude of capability upgrades and configuration changes, from habitability upgrades to Harpoon Systems integration.



- FFG Provided Certification of the FFGs against RAN Materiel Requirements and design for a range of configuration changes to mechanical systems and ordnance stowages.



- Fleet Oiler Investigated significant issues with auxiliary boilers and provided solutions to a number of design configuration changes.



- Sail Training Ship Endeavour Provided the design and project management for a galley upgrade and for the change of hydraulic winching



- LPA Provided design and on-site Project Management for the installation of a secure comms upgrade including DSE and mast rearrangements.

AMT has the capability, background and proficiency in Naval Architecture, Mechanical Systems, Combat and Communications Systems and Electrical Power Generation and

Distribution as well as Human Factors Engineering required to design the necessary ship interfaces necessary to support any configuration changes required by the end user. AMT provides management support services such as material identification, purchasing and on-site Project Management of implementation activity.

AMT has extensive knowledge and understanding of Classification Society Rules and Statutory Regulations as well as a direct appreciation of naval operational evolutions and ship performance aspects. AMT has a thorough understanding of the rules and regulations for material applications in the maritime environment be they of a commercial nature or under military specification.

AMT is your partner for reliable and effective In-Service Support.