

# Australian Marine Technologies



## RNZN ANZAC Platform System Upgrade (PSU)

To maintain the required capabilities of its ANZAC Frigates the RNZN has determined they would undergo a midlife upgrade (technology insertion). AMT is engaged in support of the whole program, the ANZAC Platform Systems Upgrade (PSU), supporting the RNZN as it addresses issues of obsolescence, maintainability and capability of the ANZAC platform systems.



As part of this solution AMT has redesigned the Quarterdeck including a partial plating in of the forward part enabling the addition of new compartments for a relocated laundry and a new Gymnasium. In addition AMT has produced a design package for the provision of a new forward auxiliary machinery space to support the HVAC Upgrade and relocated technical office complex. AMT has provided complete Installation Work Packages for this activity.

**Under contract to MTUDDA, AMT has also performed the system to ship integration design for the installation of upgraded propulsion diesel engines...**

...and ancillary systems into the vessel to provide the RNZN with improved operational flexibility and economical speed for the remaining life of the vessels.

Again AMT provided Installation Work packages for this activity. The Power Upgrade and Stability Enhancement & Compartment Changes elements of the ANZAC PSU Project are being implemented in the lead ship and will be implemented in HMNZS TEMANA in a forthcoming extended maintenance period during 2010.

The Integrated Platform Management System (IPMS) Replacement and HVAC Systems upgrade elements of the project are currently the subject of detailed Project Definition Study (PDS) activity with AMT working with TKMSA and BVN to assist the Crown in defining their requirements in a form that is suitable for

procurement and assisting with the appropriate RFP / RFT process to identify the vendors who provide the best and most cost effective capability solutions for the RNZN. The RNZN ANZAC PSU comprises of four elements:

- a) Propulsion Power Upgrade (PU);
- b) Stability Enhancement and Compartment Changes (SE&CC);
- c) Integrated Platform Management System (IPMS) Replacement; and
- d) HVAC Systems Upgrade.

AMT is engaged in support of the whole program and is contracted directly to the Crown for the design of the Stability Enhancement & Compartment Changes elements of the ANZAC PSU Project.

The Stability Enhancement and Compartment Changes element provides the ANZAC Ships with a revised growth margin to facilitate future natural growth and capability enhancement. This has required the implementation of a number of changes to enable the ships to comply with the stability criteria at an



increased displacement. Key features are:

- An increase in Limiting Displacement to 3720 tonnes
- Correction of inherent list and trim in all conditions
- Compartment relocations and reallocations
- Capability Upgrade to the Helicopter Handling System