

# Australian Marine Technologies



## ANZAC Ship Design

**AMT was formed in 1987 to provide in-country technical and project management assistance to Blohm + Voss AG (B+V) in its design for what was to become the ANZAC Ship Project. AMT's involvement with the ANZAC Class has been continuous since well before the signing of the ANZAC Ship Design Sub-Contract in November 1989 to this present day.**

For the ANZAC Project, the majority of design activity was conducted by Blohm+Voss in Hamburg, with Australian Marine Technologies Pty Ltd seconding 12 of its staff to Blohm+Voss for a period of 31/2 years.

These staff had key roles as members of the various Blohm+Voss Technical Departments performing design, ensuring specific Australian/New Zealand requirements were understood and incorporated in the design. They gained unique insight into the B+V design and design practices with the objective of subsequently taking responsibility for the design during construction.

Upon the return of its staff to Australia in mid-1993, AMT established a comprehensive Ship Design Office in Melbourne adjacent to the ship construction site. Early activity here involved AMT preparing a significant extent of the Detail Design Package for the ANZAC Ships.

**The objective of this activity was to develop an indigenous naval ship design capability for ANZAC Ships...**

...targeted at efficiently supporting the construction activity, of exercising its role of Design Authority of the ships and of establishing a solid through life design support capability.



The AMT design role in its Melbourne office during the initial ANZAC construction period included full Configuration Management of the design of ANZAC Ships 01 and 02 on behalf of B+V. This led to AMT undertaking and controlling all design activity for hundreds of configuration changes, utilising the support of B+V where deemed necessary.

In addition to the detail design undertaken within its Melbourne office, AMT designed for a wide range of ANZAC Ship configuration changes during the early to mid 90's. This included such a diverse range of activity under the general categories of;

- Design for compliance with unique Australian material and capability requirements;
- Integration of Australian sourced alternatives to design baseline systems, equipment and bulk material;
- Engineering investigation and design change where appropriate in response to issues arising in the construction of the First of Class; and
- Design configuration changes processed as formal Sub-Contract Amendments for implementation during the construction of the first two ships of the Class for the RAN and RNZN.

AMT has been able to utilise the unique depth of experience gained within this period in its ongoing design support to the Class, in configuration changes during construction, in support of design investigations in support of the Department of Defence, in the In-Service Support of the Class and in design and configuration changes for RAN ANZAC Ships and more recently for a major upgrade to the ANZAC Ships of the Royal New Zealand Navy.