

HMAS SUCCESS Jacket Water Heaters

Piping System Detailed Design

Date: May 2006

Client: Australian Navy

Project Summary: Design of a heating system for the main engine jacket water system on HMAS SUCCESS

SOFRACO was contracted to complete a detailed design for a heating system for the main engine jacket water system on HMAS SUCCESS. This was required so as to keep the engines warm whilst the ship is along side at port and to also pre-heat the engines after an extended shutdown.

The project involved the selection of an electrical heating unit suitable to warm the engines from cold in 4 hours. An Alfa Laval unit was selected for this purpose and the associated piping, valves and electrical interfaces were designed by SOFRACO.

The challenges in this project were the limited space available to locate the new piping and equipment and also the need to integrate this new piping circuit into the existing engine systems.

The deliverables included drawings, design, installation, test reports and also a draft operating procedure.

With this upgrade the ship is expected to have a reduction in maintenance requirements for the main engines and also have a faster response time when needed for service.



HMAS SUCCESS – Main Engine showing Jacket Water Cooling pipe work (blue)