

AUSTRALIAN MARITIME SYSTEMS LIMITED

OVERVIEW

One of AMS's chief capabilities is in the area of visual signalling. This is a basic skill set required by aid to navigation service providers.

AMS's staff have been involved for many years in the design of visual signals that accord with IALA recommendations. Experience with long range visual signals and short range signals means that we can optimise visual signal designs to provide the most economic and effective solution for any visual signalling challenge.

LONG RANGE SIGNALS

AMS expertise comes from experience in the design and installation of signalling systems capable of producing effective ranges in excess of 20 nautical miles that have been installed in remote locations as well as adjacent to urban concentrations.

Our staff have many years of experience servicing and maintaining long-range signals providing them with valuable feedback on the economy of operation and the sustainability of such systems in various maritime environments.

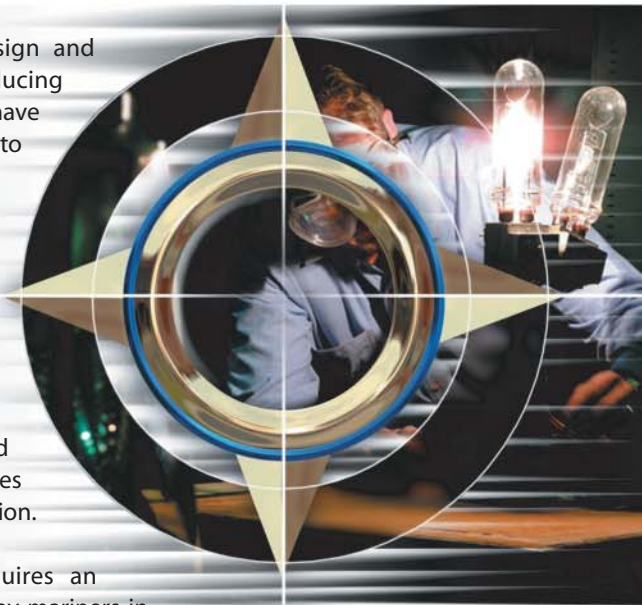
The application of these skills to the development of landfall and approach aids requires a sound understanding of the various position fixing techniques mariners apply in intercontinental and offshore navigation.

SHORT RANGE SIGNALS

Successful application of short-range signals requires an understanding of pilotage, and the techniques used by mariners in the often congested seaways close to port.

Designs for short-range signals can be prepared from standard equipment fits that have proven their value in service with many customers. Using the same design development and verification process for short-range signals as used for long range applications assures that they achieve the performance the customer requires.

AMS staff are leaders in the introduction of economical short-range visual signalling equipment for clients whose needs are high reliability at minimum cost.



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Visual Signalling

SUPPORT STRUCTURES

The design of technically sound, innovative, cost effective structures is an important facet of visual signalling. AMS personnel have been involved in the design, installation and long term maintenance of large numbers of structures for the support of maritime visual signals.

AMS expertise extends to installation and maintenance of small lightweight piles suitable for river and estuarine waters through to large offshore structures suitable for exposed locations. This experience includes the management of heritage listed and historic structures.

POWER SUPPLIES

Visual signal availability is dependent on highly reliable power supplies. Extensive experience in the integration of power supply components to achieve optimum performance in maritime signalling applications is a strength of AMS.

AMS uses computer models extensively to accurately determine the best range of power supply options for our customer's applications. Data gathered from hundreds of installations enables AMS to continually refine the design software to improve system performance.

COMPONENT SELECTION AND REPLACEMENT

To maintain the performance of visual signals, care in the selection and replacement of system components is essential. AMS staff continually appraise the market for components and carry out independent testing to assure conformance with design specifications.

AMS can maintain a complete inventory for customers, or can simply assist in the selection and purchase of suitable components.

OPTIMISATION

AMS staff have the experience and skills required to review the design of visual signalling systems and to develop plans for optimisation. Optimised systems will deliver the degree of reliability and performance required by the mariner at the most economic "through life" cost.

AMS staff have conducted system audits for a range of authorities and prepared plans for optimisation and rehabilitation of their systems.

