GAT Group

BPS MARINE
ULTRASONIC ANTIFOULING TECHNOLOGY

THAI NAVY CASE STUDY

BY GAT GROUP & BPS MARINE

INTRODUCTION

The GAT Group is working with maritime contractors in Thailand to design and deploy ultrasonic anti-fouling solutions for the Royal Thai Navy.

Design solutions have been developed which provide comprehensive anti-fouling protection for the TOR 994 Class of Royal Thai Navy “Fast Attack” vessels. The GAT Group develops robust industrial-grade ultrasonic solutions for demanding applications in the commercial and governmental sectors. Custom ultrasonic systems are provided which meet exact client specifications. Solutions can be deployed rapidly and reliably.

SPEED MATTERS

The TOR 994 Class belongs to the Royal Thai Navy’s “FAST ATTACK” fleet. These ships are designed for rapid deployment, recognizance, and interception. Fouling on the hull and stern gear can dramatically affect the performance of these ships. Anything less than an aggressive anti-fouling regiment is unacceptable given the circumstances.

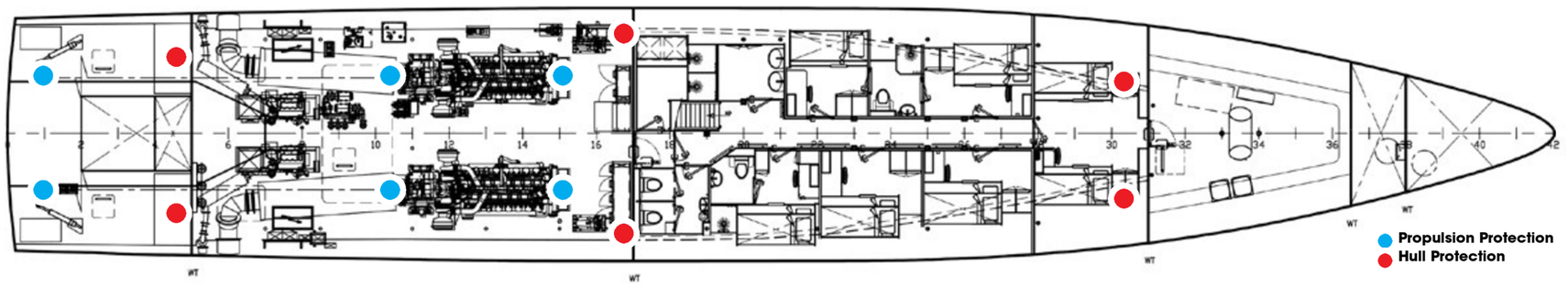


TROPICAL FOULING

The coastal waters of Thailand are warm and tropical. This equatorial environment generates rapid accumulation of marine fouling year-round. Aggressive antifouling measures must be taken in Thailand's waters

ULTRASONIC SOLUTIONS

Rapid growth fouling requires aggressive solutions. To remain effective, Thailand’s FAST ATTACK fleet must be outfitted with the most comprehensive anti-fouling solutions. The GAT Group is providing high power ultrasonic anti-fouling solutions to ensure the TOR 994 fleet is fast and responsive. Our solution utilizes a single robust central control unit in each ship. The controller features redundant 240VAC power input and provides individual transducer frequency control and calibration. The TOR 994 systems are provided with twelve high intensity (HIT) transducers which deliver high intensity ultrasonic protection to the hull, sea chests, and propulsion systems.



VESSEL CLASS: TOR 994

LOA - 41.7 M
Beam - 7.2 M
Draft - 1.8m
Tonnage - 215
Speed - 27 Knots

PROTECTION

System - 1
Transducers - 12
Input Voltage - 240VAC





