

SELECTED PROJECT PORTFOLIO

Shipboard Diesel Driven Systems



Tracked Vehicles



Shipboard Gas Turbines



Wheeled Vehicles



Ships and High Speed Craft



Shipboard Equipment



Abrasive Blasting



Aircraft Operations



Cockpit Interior



Capsule

**Project:** High Noise Initiative  
**Client:** Department of Defense

**Services Provided:**

- Identified nine significant DoD steady-state high noise sources and one potential noise control technology.
- Developed noise source reduction plans and evaluated a projected return on investment that would serve as a roadmap for future noise control in DoD acquisitions.
- A projected return on investment was estimated for each source based on parameters including: time-weighted average noise level; number of systems; number of crew; service life of crew; effectiveness of hearing protection; cost of audiograms, hearing aids and veterans' disability; estimated effectiveness and cost of treatments (materials and installation).
- Stakeholders, noise control experts and acoustical engineers, collected and established a noise database (including physical parameters controlling the noise, operation conditions, and utilization) for the nine steady-state high noise sources selected for review as part of this project.

**Results:**

- The study showed that noise control was technically and economically feasible as it was able to identify commercial off the shelf (COTS) and some advanced treatments.