SELECTED PROJECT PORTFOLIO



Vessel: *R/V OCEAN RESEARCHER V*

Operator: National Applied Research Laboratories (Taiwan)

Client: Jong Shyn Shipbuilding Company

Services Provided:

- Provided complete acoustic design services; noise control plan, airborne noise predictions and underwater noise predictions. Reviewed all pertinent shipyard construction drawings.
- Recommended all noise control treatments; acoustic insulation, damping tiles, vibration isolation, and insulation.
- Conducted training of shipyard personnel on quiet ship design and construction.
- Witnessed "Factory Acceptance Tests" of multiple shipboard machinery items for airborne noise and vibration.
- Conducted shipyard inspections during construction.
- Planned and performed dockside and underway noise testing which included airborne noise, ship-wide vibration, and underwater noise.
- Used BAMSTM, NCE's proprietary underwater noise measurement system to quantify and demonstrate compliance with ship underwater noise requirements.

Results:

• The *Ocean Researcher V* achieved all of the acoustic requirements including airborne noise, vibration, and importantly underwater radiated noise.