

SELECTED PROJECT PORTFOLIO



Photo Courtesy of Bollinger Shipyards

**Vessel:** *Bernard C. Webber* (Sentinel-class Cutter, Fast Response Cutter [FRC-B])  
**Operator:** United States Coast Guard (USCG)  
**Client:** Bollinger Shipyards, Inc.

**Services Provided:**

- Preliminary Phase and Secondary Phase general design guidance to project naval architects
- Secondary Phase machinery noise, HVAC noise, and far-field radiated noise predictions
- Secondary Phase Finite Element Analysis (FEA) for predicting dynamic stresses and habitability vibration levels.
- Construction phase oversight to shipyard
- Review and approval of shipyard generated designs and reports for noise control materials
- Develop test plans for noise and vibration acceptance testing
- Ship inspections of noise control materials
- Perform noise and vibration testing during sea trials
- Aid the shipyard in performing noise and vibration diagnostics
- Sea trials testing and diagnostics were performed on the first eleven vessels of the class