

SELECTED PROJECT PORTFOLIO

**Vessel:** *SBX-1*  
**Operator:** National Missile Defense Command  
**Client:** The Glosten Associates

**Services Provided:**

- Advised on appropriate critical equipment/machinery vibration limits for marine environment.
- Provided design services including foundation/hull finite element “forced” analysis and HVAC noise analysis. Directed shaker tests to confirm FEA analysis. Reviewed all pertinent construction drawings.
- Recommended HVAC silencers and insulation.
- Conducted shipyard inspection and preliminary testing during construction.
- Planned and performed underway vibration testing which included propulsion machinery, mission critical equipment, and habitability as part of sea trials.
- Planned and performed diagnostic noise measurements to recommend acoustic treatments to improve work area communication.
- Planned and performed diagnostic vibration measurements on equipment suspected of having excessive vibration.
- Evaluated control rooms for high reverberant noise levels.