



Good Vibration Analysis: Your Key to Safer Operations

Excessive vibration generated on board a vessel can affect the health of machinery, lead to structural damage, and reduce passenger and crew comfort by contributing to airborne noise.

At the beginning of the design process, decisions are made regarding a ship's structure, method of machinery mounting, and the potential use of specialized coatings, all of which can help to control noise and vibrations.

EBDG employs advanced computer technology such as Finite Element Analysis (FEA) to help anticipate potential vibrations during the design process and to troubleshoot vibration problems on existing vessels. FEA analysis can simulate ship vibrations under various operating conditions and document the existence of vulnerable areas.

EBDG can assist you with engineering the solutions that will help decrease the noise and vibrations onboard your vessel.

Our Vibration Experience

**NORTHERN HAWK Generator
Vibration Study**

Client: Coastal Alaska Premier Seafoods

**Structural and Vibration Analysis
of Truss Structure**

Client: McKean Defense Group

**PHILLIP C GEORGE Tug Structure
Vibration**

Client: Southwest Shipyard, L.P.

And many, many more...

Need help with noise and vibration issues on your vessel? EBDG can help. Contact us today.