

Oil & Gas Installations Noise and Vibration Control

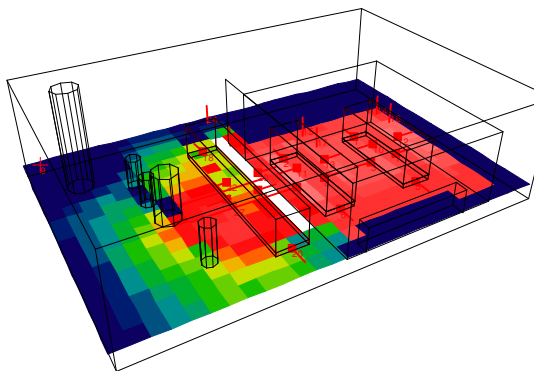


- **Noise Prediction & Control**
- **Vibration Analysis**
- **Noise & Vibration Measurements**
- **Trouble Shooting**
- **Valve & Pipe Noise Studies**
- **HVAC Noise Studies**
- **3rd Party Design Verification**

ÅF-Ingemansson has got extensive experience on noise and vibration control studies on offshore installations, both production platforms, FPSO's and drilling rigs.

Our services range from preparation of noise and vibration requirements during pre-engineering, to prediction and control studies executed during engineering phase for new-building and modification projects, and to offshore verification measurements and trouble-shooting.

It is important that the noise and vibration requirements for a project are elaborate and precise. We like to prepare the requirements based on a combination of early predictions and experience. We can thereby ensure a good starting point for the ALARP process.



Computer model for noise predictions

For the prediction and control studies we apply state-of-the art analysis tools like Odeon, SoundPlan, AutoSEA and Ansys. Although it's important to have the right tools, it's probably more important that we have the necessary



Offshore Measurements

experience to evaluate the input, the results, and to propose practical and effective alleviating remedies.

Offshore noise and vibration measurements require experienced staff that is familiar with the special offshore environment, who has got the necessary safety approvals and who can bring the appropriate measurement equipment.

Our testing services comprise regular noise & vibration mapping, noise exposure measurements, trouble-shooting, FAT test attendance, and laboratory testing.

Project Examples

- Noise noise control study for the Halfdan BD production platform.
- Noise control study for the Chinguetti FPSO conversion project.
- Noise control study for the Al Shaheen Block 5 development.
- Noise verification survey onboard Dan West Flange.
- Noise emission string test for turbo-compressor package
- Screening and reduction of deck vibration for Generators, WI pumps and Compressors onboard Alvheim FPSO and Volve Platform
- Attendance during factory test of acoustic enclosure for gas turbine

