



Major Oil Company – FPSO

West Africa

Situation

A major West African oil company was revamping an FPSO (floating production, storage and off-take) to increase its production capacity. The project involved extensive modifications to various modules. Due to limited space and inherent safety concerns, the company wanted to minimize both the number of personnel and time spent on the FPSO as well as the amount hot work performed.

Challenge

The FPSO lacked current and accurate existing conditions documentation. Using traditional survey techniques to document an FPSO is difficult or impossible because it is continuously moving due to waves and ballast conditions.

Solution

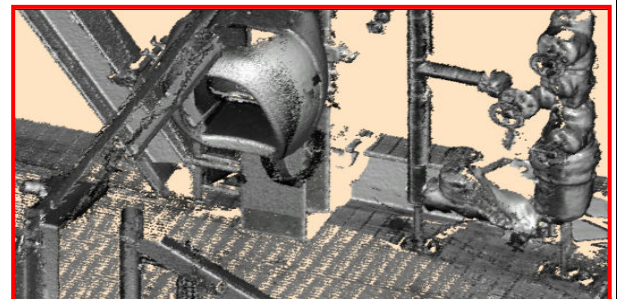
As a technology company, Quantapoint created a novel solution that enabled laser scanning to be used to “digitize” the FPSO without relying on traditional survey. A two-man crew was able to digitize several FPSO modules in less than 3 days without scaffolding.

Results

Quantapoint was able to deliver a digitized FPSO in the vessel’s coordinate system that included photo-realistic, interactive and dimensionally complete 2D laser scans and 3D laser models. This provided more comprehensive and accurate information for design, fabrication and construction decisions.



*Quantapoint 2D Laser Scan (Not a Picture)
Each Point is a Measurement*



*Quantapoint 3D Laser Model (Not CAD)
The FPSO on Your Desktop*