

Foinaven FPSO metering system upgrade



Client:

Teekay Petro Jarl Production AS

Operator / Partners:

BP / Marathon Oil

Location:

Foinaven FPSO, Atlantic Ocean

Equipment:

Metering system upgrade

assembled by Proserv at our workshop in Scotland. Other features of the system include web browser and front panel / keypad for convenient and secured access to flow computer data, in place of hand-held devices and keys used previously for flow computer data access.

System functionality

- Calculation of flow rates and totals
- Monitoring and control of proving, sampling and tanker loading operations
- Graphical operator displays with data entry, alarm-handling and trending capabilities
- Reporting and logging functions
- Data handoff to the ICSS

Key successes

The system was safely built, installed and commissioned by Proserv to meet all success criteria agreed with the customer and despite challenging project timescales, the system was delivered as planned.

Proserv utilised its expertise by ensuring that the new system was installed with no loss of metering data. The system change-out was completed with no interruption to tanker loading.

In recognition of how daunting transition to new technologies can be, Proserv organised a 3-day training course for the system operator at its Scottish offices. This ensured that the operators were able to use the system once it was commissioned.

Proserv is at the forefront in delivering the eXLerate package-based metering solutions and the success recorded in this project further enhanced this position.

Project background

This project is a fiscal crude oil metering system upgrade for the Petrojarl Foinaven FPSO vessel. The original metering system, installed in 1996, was replaced due to equipment obsolescence.

Chosen for our reputation

With over 200 metering control systems supplied so far to the industry, Proserv was chosen because of our system's proven quality and reliability.

Project scope

The objective of this project was to provide a metering system that is fit for purpose through to the field's end of life, currently estimated to be December 2025. To achieve this, the obsolete flow computers were replaced with newer, industry-standard flow computers with enhanced capabilities.

System features

Having reviewed the customer's requirement, Proserv supplied an integrated metering solution comprising dual-redundant, PC-based metering supervisory computers for control and supervisory functions, Emerson S600+ flow computers for stream metering functions and a display client for remote visualisation of the metering data.

The Meteor PCs run the eXLerate SCADA package. The system was mounted in a new dedicated metering panel



Foinaven FPSO