

Oil, Gas and Energy

FPSO OKHA



Location of Project:

Re-fit in Singapore

Client:

Optilan

End User:

Woodside Energy

Scope of Work

Project management, detailed design (electrical and software), system manufacture, testing and commissioning.

Scope of Supply

An ACE 100 PAGA system consisting of 1 x PAGA 'A' & 'B' Central Equipment Systems.

Each system containing the following:

- 1 x ACE 100 Node and associated hubs
- 2 x AMPIID frames with each system fitted with 12 x 300 watt AMPIID 'On-line' amplifiers and 1 x 'Hot-Standby' providing a total audio output of 7,200 Watts.
- CCU Telephone Interface & Digital; Storage Playback Unit
- 2 x AMPIID Fan Assemblies

Associated Field Equipment:

- 4 x ACET 18/NK Microphone Access Units
- 3 x ACET 01 Outdoor Intrinsically Safe Microphone Access Units

The Project

The equipment is designed for the broadcast of live speech and alarms initiated from the main access units or via the fire and gas panel. Audio is distributed via several 100 volt lines to loudspeakers positioned around the FPSO, which can provide a substantial 7.2KW of Audio Power.

Further Information

The FPSO OKHA has dual capability as a storage facility and trading tanker. It was fabricated at Daewoo Heavy Industries in Okpo.

It is ice-classed with a reinforced bow, allowing it to push through 'young' or 'light' ice, and has 12 cargo tanks with a storage capacity of 1 million bbl. This allows the vessel to remain on-site, without risking its ability to reach open water, so maximising oil production.

This OKHA will replace the currently operating FPSO Cossack Pioneer in and will

be used for conversion into an FPSO with a dis connectable turret.

The OKHA FPSO was under contract with SEIC for operation in Sakhalin until December 2009. It then sailed to Keppel shipyard in Singapore for conversion and integration of the process modules and turret. The facility is being developed for the Cossack Wanaea Lambert Hermes oil field 135km northwest of Karratha in Western Australia.

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