

Oil, Gas & Energy

FPSO Enfield
(now renamed Nganhurra)



Location of Project :

North West Cape, Western Australia

Tyco Fire & Integrated Solutions

Client : Nessco

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 System.

Each system containing the following:

- 1 x ACE 100 Node and associated hubs
- 3 x AMPIID frames with each system fitted with 23 x 300 watt AMPIID 'On-line' amplifiers and 1 x 'Hot-Standby' providing a total audio output of 6,900 watts.
- CCU Telephone Interface & Digital Storage Playback Unit
- 3 x AMPIID Fan Assemblies

Associated Field Equipment:

- 3 x ACET 18/NK Safe Area Microphone Access Units
- 6 x ACET 01 Outdoor Intrinsically Safe Microphone Access Units for Muster Areas
- LAK explosion-proof beacons.

The Project

The equipment is designed for the broadcast of live speech and alarms initiated from the main access

units or via the fire & gas panel.

Audio is distributed via several 100 volt lines to loudspeakers

positioned around the FPSO, which can provide a substantial 18.6KW of Audio Power.

Further Information

The Enfield FPSO is of double-hulled construction with a storage capacity of approximately 143,000m3 (900,000 barrels).

Export crude oil will be stored in the FPSO's tanks and periodically

exported through an offloading hose to tandem moored off-take tankers.

As well as its state-of-the-art communication system, the FPSO is fitted with a dis-connectable turret and its own propulsion system to enable the vessel to drop its moorings and quickly move away from the frequent tropical cyclones in the area..

Production is expected to extend over a long period and the facilities have been designed for 20 years operation.

The FPSO is intended to remain on station for the entire design life without recourse to dry docking for maintenance or survey. Enfield oil-field, located off Australia's North West Cape, uses subsea wells, manifolds and flow line systems



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