



Oil & Gas

Kumang & Kanowit Project

ACE 100 Public Address & General Alarm System

Complete with Spector Lumenex 'LTU' loudspeaker & 'SABS' Beacon monitoring systems

Scope of Work

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

Scope of Supply

2 x ACE 100 PAGAs consisting of:

PAGA Central Equipment complete with MDF cabinet containing the following:

1 x ACE 100 Node and associated hubs

2 x AMPIID frames each fitted with 11 x 300 watt AMPIID amplifiers and 'LTU' modules

2 x AMPIID Fan Assembly

CCU Telephone Interface & Digital Storage Playback Unit

Associated Field Equipment:

2 x ACET/16/18/NK remote microphone access units

2 x ACET 01 I.S access units

30 & 8 watts explosion-proof loudspeakers complete with LTU modules

6 watts ceiling speakers complete with LTU modules for the accommodation areas

HAK Series explosion-proof beacons complete with 'SABS' monitoring system

EExed manually initiated break glass units

Explosion-proof sounders

Location of Project

The Kumang Cluster is located about 200km offshore Bintulu, Sarawak in water depths of 59 to 102 metres.

Tyco Fire & Integrated Solutions Client

Rites Sdn Bhd

The Project

The equipment is designed for the broadcast of live speech and alarms initiated from the ACET Microphone Access Units or via the Fire & Gas panel. Audio is distributed via several 100 volt lines to loudspeakers positioned around a complex which consists of 5 separate oil platforms.

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'SABS' Beacon monitoring system is included to provide monitoring for each individual HLAK explosion-proof beacon. The system is also equipped with the SALS (Spector Addressable Loudspeaker System) which is a Zone 1 certified addressable micro controller outpost designed to provide local management of the loudspeaker, including the facility for remote 'tap' change and individual loudspeaker monitoring.

Further Information

The cluster consists of 10 fields, and the development of this cluster will be carried out in two phases, where Phase 1 consists of the development of F9, Kuman and Kanowit fields and the construction of one central processing platform and two satellite drilling platforms. A total of 23 development wells are planned to be drilled. The remaining fields in the cluster will be developed in Phase II. Gas produced from the project will be transported to the PETRONAS LNG Complex in Bintulu via a new pipeline to be installed by 2010.

The platforms will be installed in water depths ranging from 60 metres to 100 metres (197 ft to 328 ft) with first gas expected in the second quarter of 2010. Gas production is designed to reach 550 MMcf/d, with an export condensate at 17,000 stock tank barrels a day.



Spector Lumenex is the leading brand of communication systems designed and manufactured by Tyco Fire & Integrated Solutions. We are able to offer complete compliant solutions for wired communications that provide both operational and life safety systems for onshore and offshore installations and other challenging environments. Our range includes:

Public Address and Alarm (PA/GA) Systems:

- ACE 100, 4, 16 (explosion-proof & purged)
- Firephone 400
- VA400 for Public Address & Voice Alarm

Mentor Intercom Solutions:

- In-plant paging and alarm solutions
- Industrial intercom
- Platform intercom (Drillers intercom, Mustercom, Shout back)
- Fully integrated intercom solutions
- Office intercom

Field Equipment:

- Acoustic Hoods & Beacons
- Junction Boxes, Cabling & Installation Materials
- PABX & Telephone systems for Industrial or Hazardous Area Applications
- Xenon Warning Beacons
- Loudspeakers

For further information contact your local Tyco Fire & Integrated Solutions office on: tfis.marketing@tycoint.com for a brochure or visit our website at www.tycofis.com.



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