

COMPLETE TURNKEY FIRE & GAS UPGRADE

Collaborative Success Story





Dron & Dickson's highly experienced Engineers and Technicians carry out upgrade of existing Fire & Gas Detection System for a valued client in Australia.

The Background

A valued client operating an offshore drilling asset in Western Australia had an obsolete Fire & Gas and Gas Detection Systems. Both systems were approaching expiration, with little to no available spares, rising maintainability issues, and increasing risk of: loss of production, down-manning, non-compliance with current DNV/MODU standards and unplanned downtime due to equipment failure.

Dron & Dickson were approached to provide engineering services due to their extensive experience in Fire & Gas engineering, installation and commissioning. Concurrently, due to their significant expertise in the field, Monitor Systems was approached to upgrade the obsolete Gas Monitoring System.

Project Overview

The collaboration involved a full system upgrade executed within approved budget, with a phased process that ensured that both old and new systems remained fully operational during installation.

Dron & Dickson provided the Fire & Gas Detection System upgrade, including provision of engineering design, hardware supply, installation, commissioning and FAT. Monitor Systems provided the upgraded Gas Detection System, including new redundant PLC based control system complete with HMI's for easy visualisation in accordance with relevant regulations.

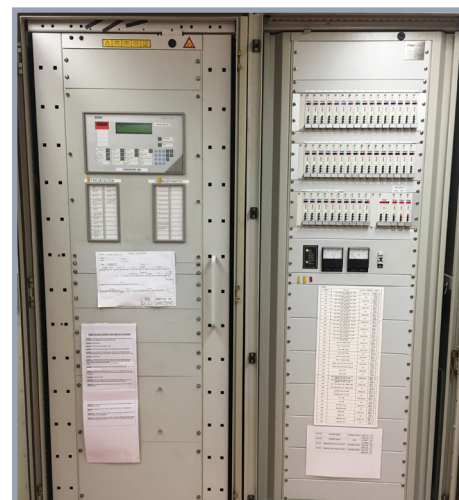
By working closely together on schedules, documentation, interface points and commissioning phases, the two companies delivered a fully enhanced, seamless detection solution, replacing all obsolete equipment and restoring long-term supportability for the client.

Combined Delivery Approach

- Jointly coordinated upgrade phases to ensure overlapping protection from both systems.
- Aligned documentation, testing procedures and interface controls to streamline offshore commissioning.
- Shared planning and communication to manage panel replacements, I/O crossovers and detector continuity.
- Collaborated on operational risk management, ensuring the Fire & Gas and Gas Detection upgrades meshed without interruption to asset safety.

This coordinated execution meant at no point was the asset without active Fire, Gas or H2S detection coverage.

The Result



Before Fire and Gas upgrade



Fully Upgraded System



The client received a fully enhanced Fire, Gas & H2S Detection Systems with:

- Zero hours of downtime during upgrade.
- Follow safety precautions throughout breakdown and installation stages.
- Compliance with DNV and MODU requirements.
- Removal of all risks associated with obsolete hardware.
- Ready availability of spares for long-term support.
- Improved operational visibility and alarm integrity through enhanced HMIs and logic.
- Remote access support for faster diagnostics and reduced maintenance burden.

Through efficient collaboration, Dron & Dickson and Monitor Systems Engineering delivered a robust, reliable and future-proof detection system, enabling the asset to continue long-term operations with full confidence in its safety infrastructure.



After Fire and Gas upgrade