

## **+ Woodside North Rankin A Fire and Gas System Replacement** **WINNER 1999 ENGINEERING EXCELLENCE AWARD**



### **+ PROJECT OVERVIEW**

The North Rankin A Fire and Gas System Replacement Project (A \$17.5 million) in the North West Shelf, Western Australian that took place between 1997 to 1999. On an EPC basis, IES were engaged to replace the existing fire and gas detection and protection system without compromising the platform's operating and technical integrity.

### **+ OUR SERVICES**

I&E Systems' services on this upgrade project included:

- Relocated/upgraded process control equipment to make space for the new fire and gas PLC (Tricon V9).
- Assess emerging infra-red gas detection technology to replace the existing catalytic point gas detectors and Gas Detection Philosophy/Placement Strategy.
- Developed detailed cutover strategies for system migration and migrate the system with continued operation.
- Incorporated the fire and gas requirements of a concurrent major drilling facilities refurbishment project.

## + THE RESULTS

Upgrade of the fire and gas was completed without any disruptions to production or infringement to operating or technical integrity.

Increase in facilities reliability.

1050 Fire & Gas I/O and 1000 Process Control System I/O, with segregation aligned to process trains.

Migrate 2500 loop drawing information to DAD database design/documentation/maintenance tool. The DAD product was used extensively to assist with the project and technical data transfer. Over 7000 instrument and electrical drawings were cancelled.

Reassessed the existing Cause & Effect diagrams to meet current standards and to provide a simplified protection philosophy.

The project was completed under budget \$15.5 M, and no Loss Time due to Incidents. The project achieved an Australian Engineering Excellence Award in 1999.

## + CONTACT US

For further information about System Engineering – Greenfield or Brownfield services please contact our Business Development Managers:

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