



## Oil & Gas

### Khursaniyah Producing Facility and Gas Plant P/PL System

Tyco Fire & Integrated Solutions Business Unit: Nottingham

#### Scope of Work:

To design and manufacture the in-plant Paging and Party Line communication system, incorporating Stop Work Alarm and external connections to the Aramco Alerting system features, for the Saudi Aramco Khursaniyah Producing Facility (KPF) and Gas Plant (KGP). The total project value to Tyco Fire & Integrated Solutions (Italy & UK) is worth more than \$1.6M.

#### Scope of Supply:

To manufacture and supply a configured and tested system to meet client specification and very demanding delivery schedules.

#### Location of Project:

The new Khursaniyah Gas Plant facility is located in the Eastern Province of Saudi Arabia, approximately 3km south of the existing Khursaniyah pumping station.

#### Who worked on the Project:

The Nottingham office designed and manufactured the In-Plant Paging System for delivery to Tyco Fire & Integrated Solutions Italy, for inclusion into their overall scope of supply for the project. This is the first occasion where separate TF&IS country organisations have collaborated to provide a total solution to a client.

#### Tyco Fire & Integrated Solutions Client:

Technip, Rome and Snamprogetti, Milan.

#### Background of Client:

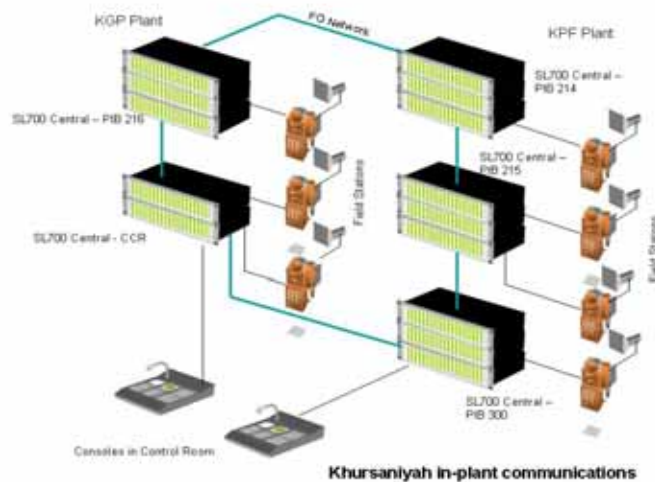
Both Technip and Snamprogetti have engineering facilities located in Italy with proven track records in providing engineered solutions to the oil & gas markets. This type of pedigree enables both companies to capture major contracting project work in the more prestigious oil & gas markets.

## The Project

The solution provided by Tyco Fire & Integrated Solutions was based on the Spector Lumenex branded Digital Mentor System which offered maximum system flexibility and safety whilst still providing all required functionality. The required system functions provide essential plant operational and safety features necessary when working in the hazardous conditions of a gas processing plant.

The system technology is based on ISDN and thus offers many of the features seen in modern telecoms technology. The selected optimum topology design of the system is based on five distributed network nodes for the central control cabinets, each linked by fibre optic cable, providing a total site-wide system. This offered a cost effective topology that maintained a high level of system redundancy whilst helping to minimise installation costs. On completion of installation the system will have more than 400 field stations connected providing operators with the ability to communicate with, and page other operatives around the various plant areas. The Stop Work Alarm feature ensures that all site personnel are alerted to any incident occurring on site in order to take appropriate action and also provides an external link to the Aramco Alerting System.

Some minor equipment design changes to field stations have been made to meet specific client needs.



## What was unique about the project

Our ability to provide a bespoke design solution which incorporates modern ISDN technology, provide a major client with their next generation of equipment and willingness to adapt to meet operator specific needs.

## Further Information:

The award of this project was particularly gratifying for Tyco Fire & Integrated Solutions as the original requests were based on our competitor Gai Tronic equipment, a long standing supplier to Aramco of this type of system (Page/Party). The offered technology also requires something of a leap of faith for the Aramco Operators as they will be using equipment fitted with touch-keypad number access as opposed to the older type of rotary switches for system access.

The award may also prove to be a vanguard project for Tyco Fire & Integrated Solutions in this particular area of the Oil & Gas market.

For further information contact your local Tyco Fire & Integrated Solutions office on: [tfis.marketing@tycoint.com](mailto:tfis.marketing@tycoint.com) for a brochure or visit our website at [www.tycofis.co.uk](http://www.tycofis.co.uk)

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