

“Quadrant delivers extended benefits”

Lindsey Oil Refinery Integrated Security System



Client: Total

Client Since: 2005

Scope: IP Based CCTV, Access, Intercom, and Intruder security systems for hazardous refinery environment



Client goals

- To ensure safe and secure working in a hazardous environment.
- To manage a large number of contractors during plant shut down for rebuild.
- To implement a system that would take advantage of existing IT infrastructure.

Key notes

The site at Lindsey Oil underwent a large scale shutdown and rebuild of part of its production facility during 2005, at which time a contract workforce of 1500 engineers and 500 staff were deployed to undertake the works. Normal production on the rest of the site was in full flow as the work went ahead.

The security requirements for access to site were coupled tightly with Health and Safety requirements for mustering. An additional requirement arose during the implementation of systems in the shape of customised reporting from the access control system. This reporting was used as a key management check in determining the final payments to the sub-contractor companies based upon their site attendance. This report alone was instrumental in delivering project savings beyond the costs of the security system.

The customer’s vision for future system deployments meant that the introduction of this system was led by the IT Department as a service provider to the Safety Services and Security Team. Quadrant led the Project and deployed an integrated system that runs across the Plant IT network using standard platforms, thereby realising operational benefits from the existing IT infrastructure.



“A tailored solution that met specific needs during rebuild, when our sites were most vulnerable”





Scope of supplied services

- Consultancy
- Feasibility study
- Project design
- Project management
- Procurement management
- Technology integration
- Software development
- Installation and supervision
- Commissioning
- Service and maintenance
- Training

Scope of supplied technology

- Access control
- ANPR
- CCTV cameras
- Communications - copper/fibre/IP/wireless
- Control room systems and furniture
- Digital recording
- Digital storage
- Intercom and PA
- Intruder alarms and monitoring
- Perimeter intrusion detection
- Personal attack

Related technologies and services:

- Barriers/Blockers/Turnstiles
- Security lighting
- Fencing
- Civil Works

Ongoing results

The client has received significant benefits from the introduction of integrated systems and in particular their convergence across the site's IT infrastructure. Coverage of these technologies continues to spread across the refinery estate (6.5Km²) and may soon include a method of 'true logical access' that avoids the requirement to install PC-workstation readers and the consequent need to upgrade the access system to accommodate multi-pass type cards. The Lindsey Oil Refinery is considered a benchmark for the Total Group and as a consequence the QSG solution is being implemented at their other refineries.

