

Utility Security – Coal Fired Power Station

Part of the UK's Critical National Infrastructure, GSS are providing enhanced security for the largest, coal fired power station in the UK. The security solution includes an intelligent, standards-based video management platform and leading edge integrated video analytics suite.

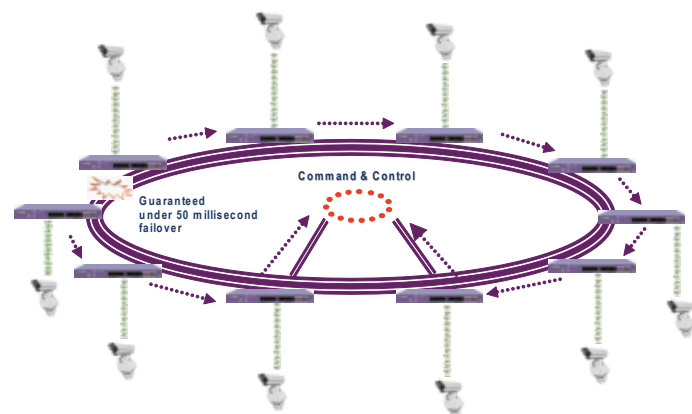
The system was designed to enable increased operational efficiency, enhance business performance, while securing critical infrastructure, property and lives.

The Solution

Network

The site boasts 6.5km of perimeter, around which a dedicated fibre-optic network has been installed. This solution includes high fault tolerance with 'seamless' 50ms failover switching.

- 145 network switches
- 10GB network
- Multi-mode and single-mode fibre



Cameras and lighting

Two hundred and thirty five cameras to cover the perimeter and key areas within the site:

- PTZ cameras
- Static cameras
- Thermal imaging cameras
- IR illumination
- White light LED illumination

Alarm activation

Multiple alarm sources integrated into a single user interface:

- Perimeter Intrusion Detection (PID) system
- Video Analytics
- Access Control

Video Analytics

Video content analysis is a key aspect of the system. Integrated into the single user interface it allows alarms to be identified and prioritized before an intrusion occurs.

- Real time analytics on 158 cameras
- Virtual perimeter alarms (trip wire)
- Areas of interest (loitering, objects abandoned/ moving)



Hardware and Storage

All images are digitally recorded by the Storage Area Network.

- Servers (Microsoft Windows Server 2003, Microsoft SQL Server)
 - Command and control – 2 Servers
 - Recording – 6 Servers
 - Analytics – 3 Servers
- 7 client workstations (Microsoft Windows XP Professional.)
- Fibre attached SAN, 54 Terabytes in Raid 5

Control Room

A new purpose built control room housing four operator positions. Each position benefiting from three fully configurable monitors:

- Multi-screen images including live, event and replay
- Management, control and response plans

Where to find additional information

Design, integration, installation and commissioning
Guide Security Services: www.guidesecurity.co.uk

GSS
Arkwright Court
Commercial Road
Blackburn Interchange
Darwen
Lancashire
BB3 0FG
t. 0845 058 0011
f. 0845 058 0018