



Environmental Engineering

Environmental Solutions in Specialist Areas

a vital part of your world

tyco

*Fire & Integrated
Solutions*

Where we work worldwide

- Offshore
- Onshore
- Oil & Gas Refineries
- Petrochemical Plants

What we can do for you

Design engineering in the following specialist areas:

- Noise Control
- CoSHH LEV Assessments
- Refrigeration
- HVAC
- Air Monitoring
- Specialist Solutions



Delivering total solutions capabilities in specialist areas across the globe



How we operate

Design

Tyco Fire & Integrated Solution's design team comprises consulting engineers, project engineers, designers and CAD operators whose combined experience has overcome most design challenges likely to be encountered.

Our design team has been developed from our clients' desire for fixed price 'turnkey' projects. This approach has earned our reputation as 'on time/on budget' contractors.

Commissioning

Our commissioning team has a wealth of experience in setting systems to work, air balancing and trouble shooting of HVAC and refrigeration plant and controls. In this respect we are often called in where others have failed to provide effective solutions.

Maintenance and Cost Reduction

Our maintenance commitments cover not only 'hands on' routines but encompass all the management functions traditionally performed by the client:

- Liaison with regulatory bodies
- Ensuring 'fitness for purpose'
- Writing planned maintenance routines
- Scheduling work and reporting
- Documentation and plant history
- Performance monitoring
- Design and consultancy back-up
- Spares holding and procurement
- Full technical support



Air Conditioning Systems

The primary function of air conditioning systems is to maximise the up-time of processes and drilling critical electrical equipment. Our service covers CFC/HCFC, refrigerant gas reclaim and replacement, legislative guidance, trouble shooting/breakdown/repair and a 24 hour emergency call-out service.



HVAC

HVAC safety systems provide dilution, dispersion and removal of potentially hazardous concentrations of flammable gas mixtures from hazardous areas. The HVAC plant provides pressure differential between hazardous and non-hazardous areas. In addition they provide comfortable environments for living conditions.

As an integral part of the installations HVAC safety systems allow isolation of individual areas and control of ventilation in emergency conditions, in accordance with the shutdown logic of the fire & gas detection and alarm safety systems.



Air Monitoring

To establish the quality of air in working environments, or accommodation and show it to be free from harmful levels of contamination namely air pollutants such as CO₂, CO, Ozone and formaldehyde, the following tests are completed:

- Establish the dust levels in the atmosphere
- Obtain the relative humidity level and temperatures
- Check the bacterial loading both airborne and in ductwork surfaces including; legionella checks within the humidification system

Noise Control

Our operations include noise control and attenuation of plant, machinery and duct-borne noise together with surveys and advice on legislative requirements, in particular the Noise Regulations.

CoSHH LEV Assessments

The Control of Substances Hazardous to Health (CoSHH) regulations play an increasing role in the health and safety and comfort of personnel, both offshore and onshore. Under these regulations Local Exhaust Ventilation (LEV) systems must be tested at least once every 14 months to ensure their performance.



Specialist Solutions

- KP3 HSE Audit Compliance and Verification
- Performance Standards and Technical Compliance
- Technical Integrity Custodian
- Smoke and Gas Ingress Analysis
- PFEER Compliance
- Fire Damper and ESD Systems
- Central Air Conditioning Plant
- Life Cycle Costing
- Criticality Optimisation

United Kingdom

Tyco Fire & Integrated Solutions Environmental Engineering

Glover Pavilion
Science & Technology Park
Balgownie Drive
Aberdeen
Scotland
AB22 8GW
Tel: +44 (0)1224 702711
Fax: +44 (0)1224 706498
Email:
tfis.environmental.uk@tycoint.com
www.tycofis.co.uk

Tyco Fire & Integrated Solutions

Head Office

Tyco Park
Grimshaw Lane
Newton Heath
Manchester
England
M40 2WL
Tel: +44 (0)161 455 4400
Fax: +44 (0)161 455 4459

Overseas

Tyco Fire & Security UAE

PO Box 3333
Abu-Dhabi
UAE
Tel: +971 267 77776
Fax: +971 267 68746

Tyco Fire & Integrated Solutions/REM

Av Rio Branco
No 173-16 Andar
Centro
Rio De Janeiro – RJ
Brazil, CEP 20040-007
Tel: +55 21 2240 9402
Fax: +55 21 2262 5749

Wormald Thorn Azerbaijan

2nd Kondalan Street, 2
Heydar Aliyev Avenue
Baku
AZ1029
Azerbaijan
Tel: +994 12 4479428/38
Fax: +994 12 4479420
Email: info@tycocis.com



Our Commitment to Quality

A commitment to the highest standards of quality assurance underlines everything that we do. These are some of our current accreditations and trade association memberships.

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