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# Case Study ATEX and DSEAR

## Introduction

One of the many core requirements across a range of industries is the safe management of potentially flammable gas, vapour, and dust atmospheres. Falling under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR) the route map to compliance is well defined.

## Competencies

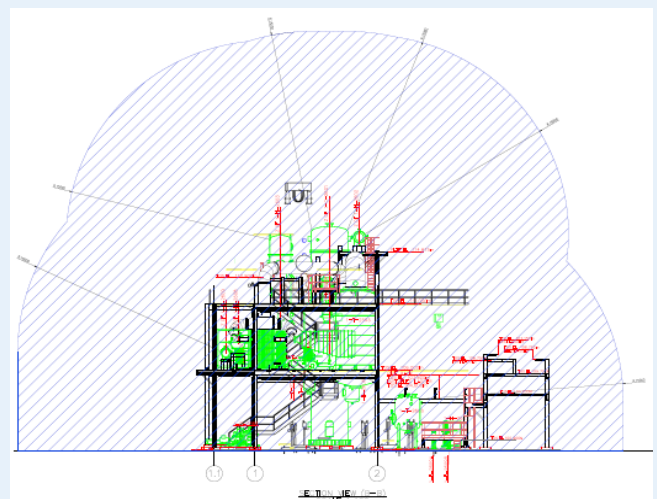
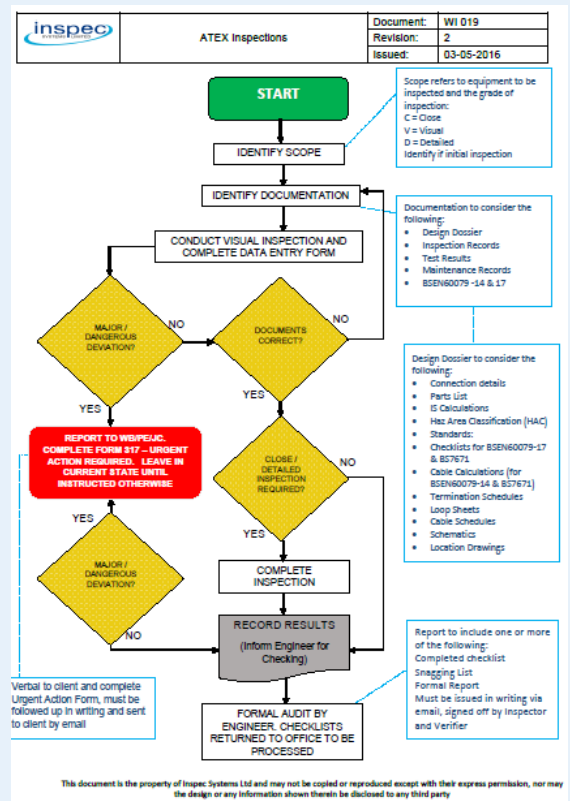
Working closely with industry our engineers and technicians have completed training to ensure they have the right knowledge and experience to competently and expertly deliver. Competencies include:

- Chartered engineers with the IChemE and IET
- CompEx units 01 to 06 covering installation and inspection within gas, vapour and dust environments
- CompEx unit 12 covering application design
- BS7671 C&G covering installation, inspection, testing, and design
- NICEIC Hazardous Area Scheme Approved Contractor

All personnel have appropriate training in health and safety from NEBOSH National General Certificate to Safety Passport, CCNSG and similar.

## Assessment and Classification

From Pharmaceuticals to Oil and Gas, Food and Beverage to Spray Painting, the DSEAR Risk Assessment (RA) and Hazardous Area Classification is the starting point for all installations. With 30+ combined years of experience our team of Chartered Engineers have undertaken DSEAR RA's and HAC's for them all, using industry standards including BS EN 60079-10-1 (gas) and BS EN 60079-10-2 (dust).





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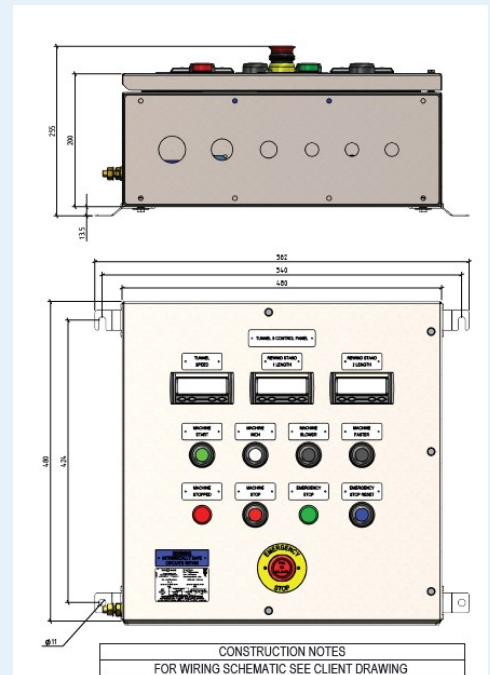
## Design and Engineering

Over numerous projects we have honed our design and engineering systems to ensure close compliance with the relevant British and Industry standards.

Developing complex solutions including:

- All standard protection concepts from flameproof (Exd), increased safety (Exe), to by enclosure (Ext) and everything in between
- Exi intrinsically safe including the design, calculation, and installation of intrinsically safe earthing systems

All projects are handed over with a technical file and competent persons declaration to BS EN 60079-14.



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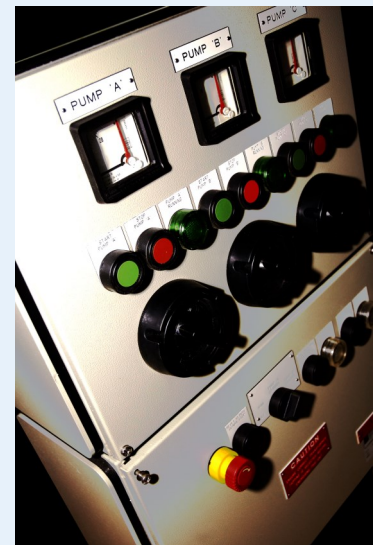
## Bespoke Fabrication

Invariably solutions require the bespoke fabrication of suitably rated equipment.

Our team have successfully engineered a range of solutions through engagement with 3rd party specialist fabricators to ensure certifications and declarations are in place demonstrating safety and compliance.

Typical assemblies have included:

- Field mount junction boxes
- Remote networking enclosures
- Field mounted PLC, remote IO and HMI systems



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### Preliminary Surveys

Our team have engaged with new clients who have no existing ATEX systems in place. Performing site surveys and supporting the development of suitable policies and procedures to comply with DSEAR requirements.



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### Installation and Inspection

Our team of CompEx electricians have successfully commissioned a number ATEX installations over the years covering a range of industrial locations.

Completing initial inspections, as well as ongoing periodic inspections in accordance with BS EN 60079 parts 14 and 17, we have the demonstrable capabilities to see your projects safely realised and maintained.



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### Conclusion

ATEX and DSEAR lies at the heart of our capabilities and is one of our core competencies and deliverables.

From risk assessment, to specification, design, installation, and inspection we are able to competently and professionally deliver on almost all ATEX and DSEAR projects.

Give our team a call if you have any requirements you wish to discuss on 01482 898 080.

### Contact Us

From concept to completion or at any stage we have the skills, capability, judgement and drive to support your projects.

Call us now to find out what we've been up to and how you can take benefit from our lessons learned over the past 20 years.



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### Contact Us

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