



DSEAR SERVICES: HAZARDOUS AREA CLASSIFICATION & RISK ASSESSMENT

INTRODUCTION

When dangerous substances are released in the atmosphere they can ignite or create explosions, causing damage to property, serious injury or loss of life. The UK Dangerous Substances and Explosive Atmospheres Regulations (DSEAR), and comparable international regulations, impose duties on employers and the self-employed to minimize the risk of such occurrences.

DSEAR SERVICES

SGS Baseefa Ltd provide a range of DSEAR Services. If you are unsure what to do and how to proceed we can talk you through hazardous area compliance steps and tell you what you need to do to make your plant compliant.

SGS Baseefa Ltd engineers will help you determine the hazard level by guiding you through the formalities of Risk Assessment and Area Classification. Our engineers will check that your plant is suitably protected against ignition sources in hazardous areas. Our engineers will also address any issues that may arise and offer remedial design solutions.

The DSEAR Services offered by SGS Baseefa Ltd aim to ensure that you achieve and demonstrate compliance with the relevant DSEAR requirements and with the appropriate national or international versions of the IEC 60079 series of standards related to hazardous area installations.

We do this in the most expeditious way by providing practical advice and support, so that you are not left with a list of further problems following our intervention. Subsequently you can face up to any regulatory scrutiny with confidence.

HAZARDOUS AREA CLASSIFICATION AND RISK ASSESSMENT

Area Classification and Risk Assessment are both areas in which SGS Baseefa Ltd is highly experienced, with over 35 years devoted to helping clients gain DSEAR/ATEX compliance.

Regulation 5 of DSEAR requires that where a dangerous substance is, or is liable, to be present at the workplace, the employer shall make a suitable and sufficient assessment of the risks to his employees that arise from that substance.

Our risk assessor completes a site audit and conducts risk assessment meetings with those client personnel responsible for operations and health and safety within the relevant site areas. Our purpose is to reduce the extent of the classified areas and eliminate them if possible.

The hazards relevant to DSEAR are identified and the potential accident frequencies and consequences are qualitatively assessed. The means to prevent, control and mitigate the accidents are recorded, together with any further risk reduction measures, in order to demonstrate that the risk is as low as reasonably practicable. Part of **Regulation 7 of DSEAR** requires that the employer classifies places at the workplace where an explosive atmosphere may occur into hazardous or non-hazardous places, i.e. a hazardous area study must be completed.

It is vital that an accurate area classification study is completed. For instance, it is undeniably dangerous if an area is classified safe when it is actually hazardous. Much less appreciated are the consequences of getting it wrong the other way.

An area that is over-classified will drain profits from your company for as long as it remains so; initially in the form of an overly expensive installation, thereafter in costly maintenance and inspection.

We classify areas in line with the **IEC 60079-10** standard, also with the model code of practice if there is a connection with a particular industry, e.g. Energy Institute **EI15**, Institute of Gas Engineers **IGEM SR25** etc.

A formal report is provided for your records along with the area classification drawings and supporting calculations.

ABOUT SGS

SGS is the world's leading inspection, verification, testing and certification company. We are recognized as the global benchmark for quality and integrity. With more than 97,000 employees, we operate a network of more than 2,600 offices and laboratories around the world.



SERVICES WE OFFER

- Hazardous area compliance
- DSEAR site audit
- Area classification and risk assessment
- IEC 60079 hazardous area electrical inspections
- Intrinsically safe descriptive system documents
- Loop drawings
- DSEAR equipment risk assessment
- Non-electrical equipment risk assessments

TO LEARN HOW SGS CAN HELP YOU WITH YOUR INDIVIDUAL NEEDS, VISIT WWW.SGS.CO.UK OR CONTACT US FOR MORE INFORMATION:

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WHEN YOU NEED TO BE SURE

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