

**PRODUCT CARD** 

# Control of major accident hazards regulations

### **Overview**

The Control of Major Accident
Hazards Regulations (COMAH)
2015 are regulations that aim to
prevent and mitigate the effects of
major accidents involving dangerous
substances, which can cause serious
damage or harm to human health
and/or the environment.

Dangerous substances include those that are toxic, oxidizing, explosive, flammable or otherwise detrimental to the environment. Regulation 5 of COMAH states that "Every operator must take all measures necessary to prevent major accidents and to limit their consequences for human health and the environment."

### How can we help?

We can provide you with a detailed Written Scheme of Examination (WSE). This contains information about the specific examination requirements of the COMAH system to help ensure your business remains compliant and your workforce stay safe.

Following the WSE, our experienced team can provide on-site non-destructive testing of selected plant or equipment within your workplace to determine potential hazards. Then we can support with further examinations of the plant in accordance with the WSE.



We'll work closely with you to ensure all relevant risks are correctly identified and that you understand their implications to help you prevent any major accidents and limit their consequences to people or the environment.

### **Peter Milton**

Chief Engineer, Allianz Engineering Inspection Services

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### Types of service offered

The provision of a bespoke COMAH WSE is based upon a detailed site audit, identification of hazards and the required examination regime. Non-destructive testing (NDT) can be delivered in various forms:

- Visual inspection can be classed as the most basic form of NDT and will always be utilised prior to all NDT inspections, to assess both quality and preparation by the NDT practitioner and is the most important part of our engineer surveyors' normal examination routine.
- Remote visual inspection uses specialist cameras chosen
   dependent upon plant type,
   access, restrictions on man entry
   and the required criticality of
   inspection. Many systems have
   recording equipment providing a
   permanent record of the inspection

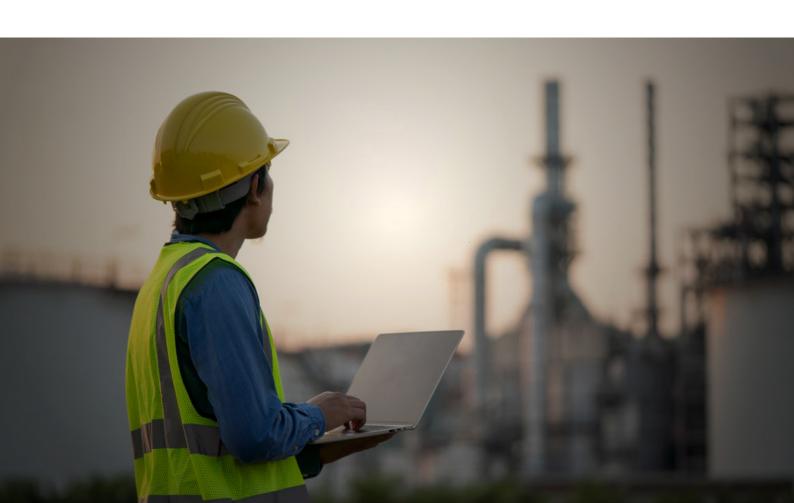
for future trending of the item condition. Generally used as part of a risk based inspection package utilising other NDT techniques.

- Ultrasonic inspection a non-intrusive method used
   to detect sub-surface planar
   or volumetric defects. It can
   quantitatively measure the physical
   characteristics of an object from
   one surface only (e.g. thickness,
   weld surveys, etc) and may remove
   the need for entry into a confined
   or hazardous area.
- Eddy current inspection used to detect surface and sub surface defects in conductive
   materials that may not be visible
   to the naked eye. This method
   can be used for weld inspections,
   structural or pressure and can also
   be used without the removal of
   well adhered coatings and paints.

- Magnetic particle inspection used to detect surface breaking
  defects in ferromagnetic materials
  that may not be visible to the naked
  eye. It includes weld and tube-plate
  inspections, forgings and castings,
  whether on newly manufactured or
  in service equipment.
- Dye penetrant inspection/liquid penetrant inspection used to detect surface breaking defects in non-ferrous materials that may not be visible to the naked eye.

Undertaking these activities will assist businesses in demonstrating compliance with regulation 5 of COMAH.

Full scope for all the above inspections is available upon request.



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# When should you use the service

- For independent examinations of any COMAH identified installation or potential high risk storage facility where the potential for high hazard risk exists.
- If you require technical expertise to assist in the management of your plant or equipment.

# Other regulations or guidance to consider

- Pressure Safety Systems Regulations 2000 (PSSR)
- HSG 176 'The storage of Flammable Liquids in Tanks'
- Provision and Use of Work Equipment Regulations 1998 (PUWER).

## We also offer

In addition to COMAH, we offer comprehensive inspection services relating to:

- Vertical Transportation inspection and consultancy services
   in support of the Lifting Operations
   and Lifting Equipment Regulations
   1998 (LOLER) and the Provision
   and Use of Work Equipment
   Regulations 1998 (PUWER).
- Electrical Testing including emergency lighting, fire alarm testing and thermal imaging in support of the Electricity at Work Regulations (EaWR) 1989.
- Energy Services designed to meet the requirements of the Energy Performance of Building Regulations 2007, including inspections for heating and cooling systems, often referred as TM44 inspections.

### For further information

To discuss how we can help you with your engineering needs, please contact:

Tel: 0345 076 0146 Email: special.services@allianz.co.uk

Alternatively, visit us online at <u>allianz.co.uk/specialservices</u> for our full list of engineering services.