

A dramatic photograph of an industrial facility, possibly a refinery or chemical plant, with large pipes and valves. A massive fire is erupting from the left side, with bright orange and yellow flames and thick black smoke billowing upwards. The scene is set against a dark, overcast sky.

**trust.**

## **Process Safety**

Providing technical expertise and compliance support on projects for new and existing facilities.

The project delivery specialists

## Safety services to meet your needs

### Full spread of process safety design and compliance project options

Whether a large complex multi-discipline project or a small scale study, you want your systems to be built to a robust and safe design.

#### Process hazard analysis and risk assessment

Methodologies for study of process dangers.

#### Pressure relief device design

PM Group's PRD Bureau provides expert knowledge to address our clients overpressure protection needs. Calculations supported include single-phase, two-phase, pressure/vacuum/atmospheric systems and emergency vent header sizing.

#### Hazardous area classification

Support and auditing for new or existing designs.

#### COMAH/Seveso sites

Major Accident Prevention Policy (MAPP) and Safety Report for these important sites.

#### Compliance projects in older facilities

Apart from reviewing new designs, we have significant experience of assessment of existing plant systems against current best practice and legal requirements.

### Process safety project delivery

**01**

Specialist team of 60+ process safety consultants and engineers.

**02**

Working in conjunction with local and global partners.

**03**

Process safety software tools.

**04**

Review panel membership for multiple industry guides.



## Specialist support for you Making your process safer

Process Safety is a disciplined framework for managing the integrity of operating systems and processes handling hazardous substances by applying good design principles, engineering and operating practices.

#### Full lifecycle cost effective approach

As the ability to affect design change incurs a great cost as a project progresses, a strategy of hazard identification and assessment at each stage offers efficiency and cost benefits.

#### Process safety project drivers

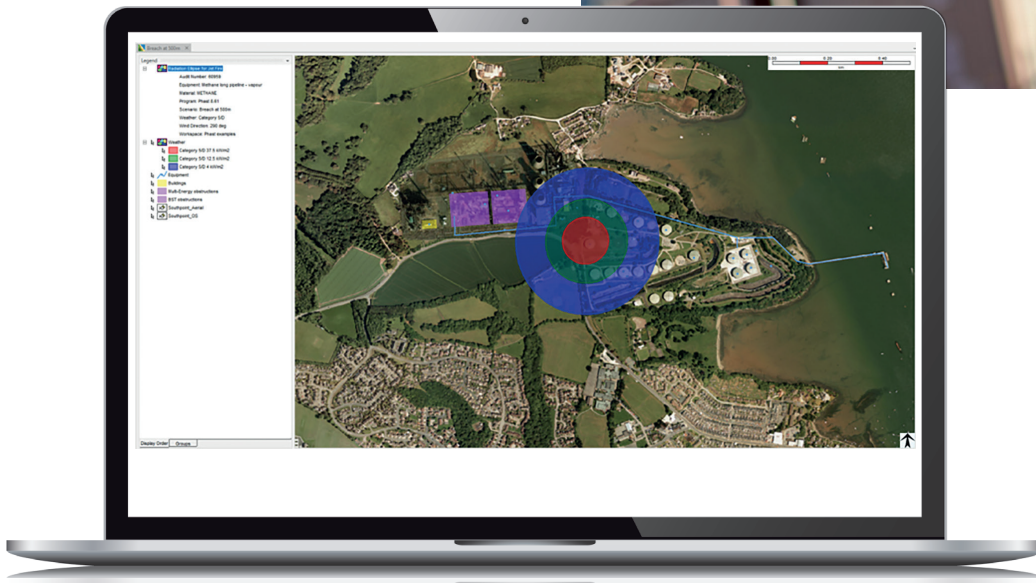
There are many reasons to consider a comprehensive process safety approach for the full facility lifecycle, including:

- Company philosophy to ensure a safe workplace and project execution
- Compliance with legal and local authority requirements
- Alignment with company standards, international guidelines and best practice
- Risk reduction to avoid financial and reputational damage
- Insurance requirements to minimise premium.

## Key services

PM Group provides project delivery services for the Biopharmaceutical, Energy and Chemical sectors. Complementing this, we have an enviable record of process safety support and excellence, whether as a stand-alone task or as part of a multi-discipline project delivery for greenfield and brownfield sites.

## PRD Remediation (existing sites)



## Consequence Modelling

## Process Hazard Analysis



## Dedicated resources Service excellence

### Process Safety Services

- HAZID/HAZOP Process Hazard Analysis
- LOPA/SIL Reviews
- Failure Modes and Effects Analysis (FMEA)
- ATEX / DSEAR - Hazardous Area Classification
- Explosion Protection Document (EPD)
- Quantitative Risk Assessment: Probability Assessment & Consequence Modelling
- COMAH/Seveso: Major Accident Prevention Policy (MAPP) & Safety Report
- Pressure Relief Device Design
- Project Process Safety Coordination
- Regulatory Compliance Assessment

### Project Delivery Services

- Project and Construction Management
- Masterplanning & Site Selection
- Environmental and Sustainability
- Architectural Design/General Planner
- Building Engineering Design
- Process Architecture and Process Engineering/Factory Planning
- Project Schedule and Cost Control
- Commissioning

**Engineers  
Architects  
Project Managers  
Constructors**

***International Office Network***

Belgium	Poland
China	Singapore
Germany	Switzerland
India	UK
Ireland	USA

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To find out how we can tailor our services to meet your business needs, contact us or visit our website:

**[www.pmggroup-global.com](http://www.pmggroup-global.com)**