LONDON PETROTECH ENGINEERING LTD

CAPABILITY STATEMENT



➢ WHO WE ARE

London Petrotech Engineering Ltd (LPE) is a London-based engineering consultancy specialising in forensic engineering, root-cause failure analysis (RCFA), and expert witness services for international arbitration, litigation, and insurance matters

➢ CORE CAPABILITIES

Forensic engineering & RCFA across oil & gas, maritime, renewables, power and infrastructure sectors.

Independent expert witness services for arbitration and litigation, including CPR 35-compliant reports, joint statements and testimony.

Advanced laboratory testing (metallurgy, mechanical testing, corrosion, electron microscopy) through a UK partner lab.

Engineering modelling & simulation including FEA, CFD, stress analysis, corrosion and erosion modelling, process and flow assurance simulation.

Multi-disciplinary Chartered Engineers covering metallurgy, corrosion, welding, piping, mechanical, structural, process and flow assurance.

Full evidence lifecycle support: incident response, evidence preservation, chain of custody, lab witnessing and expert reporting.

Integrated expert + lab model enabling fast, cost-effective, defensible technical investigations.

➢ CORE TECHNICAL STRENGTHS

- Metallurgy & Materials
- Corrosion & Degradation
- Welding & Joining
- Coating, Insulation & PFP
- Cathodic Protection
- Process & Flow Assurance
- Piping Stress

➢ SELECTED TRACK RECORD

- **Subsea Pipelines** — failures of 16" and 32" sour-service gas pipelines (2024).
- **Offshore & Maritime** — cargo ship hull component failure (Expert Witness, 2025); Pipelay vessel stinger failure; buoyancy tank strap failure.
- **Renewables** — failure of pipework in an Offshore Floating Wind Turbine (2025).
- **Power & Infrastructure** — coating failure in GIS equipment at two power stations (ongoing).
- **Oil & Gas Equipment** — ESP components, coiled tubing.
- **Desalination & Water Treatment**

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➢ WHY CHOOSE US

Proven Track Record

LPE successfully completed over 25 forensic and/ or expert witness cases

Integrated Expert Supports

Full life-cycle forensic service from component failure to litigation is offered.

Qualifications & Certifications

Chartered Engineers and Scientist and Fellow members of professional institutions

Deep Industry Experience

Proven track records in various industry sectors such as oil and gas, renewables, shipping, infrastructures, and aerospace.

➢ OUR DIFFERENTIATORS

Diversified Experience

Our team combines decades of practical experience with operators and contractors across diverse industries, giving us a detailed understanding of unit operations and the typical mechanisms that lead to component failures.

In-House Multi-Disciplinary Engineering Supports

LPE leverages its in-house multi-disciplinary engineering expertise and tools to address complex technical disputes in a comprehensive, joined-up manner.

Rapid Value Creation

From laboratory testing to in-house engineering analysis, LPE offers rapid and cost-effective solutions across every stage of a forensic assignment.

Advanced Laboratory Services

In addition to conventional metallurgical, mechanical, and chemical testing, LPE provides advanced materials-characterization capabilities using state-of-the-art electron microscopy and spectroscopy techniques.

➢ CERTIFICATIONS & AFFILIATIONS

Chartered Status

Chartered Engineers (CEng), Chartered Scientist (CSci)

Fellowship

Fellowship of IOM3, ICorr, Member of The Academy of Experts (TAE)

Professional Certifications

NACE/AMPP-Certified Corrosion Specialist, ICorr-Certified CP Engineer, Certified API-Inspectors (571, 580)

CONTACT US

Ready to partner with us? Let's discuss how we can support your dispute cases?

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