



ERA Technology has the capability and experience to plan, manage and deliver power and refinery plant condition assessments. Our services include the development and deployment of inspection programmes, metallurgical condition assessment, fitness-for-service evaluation of damaged areas, on-line condition monitoring, remaining life calculation and supervision of repairs.

In addition, ERA has strong technical capabilities in non-destructive examinations, gas turbines, high temperature plant, defect assessments, high voltage partial discharge measurements (including on-line monitoring and cable mapping), electrical engineering, mechanical plant engineering and corrosion.



Condition assessments result in a conservative remaining life or a probability of failure for the plant in question which can then be used as part of a plant risk analysis by clients. Our services are backed up by finite element modelling and defect assessment capabilities.

Our clients are typically independent power producers, refinery and petrochemical operators, electrical utilities and transmission companies. On-site investigations completed world-wide.

Services

- Non-destructive examination
- Condition assessment
- Post exposure material testing
- Failure analysis
- Fitness-for-service
- Remaining life assessment
- Repair consultancy
- Expert witness



Specific Component Experience

- Conventional boiler and pipework
- Power plant
- Gas and steam turbines
- Compressors and auxiliary rotating equipment
- Heat recovery steam generators
- Fired heaters and steam reformers
- Heat exchangers and towers
- Catalytic reformers
- Coke drums
- LPG liquefaction plant
- Electrical power transformers
- Generators and motors
- Switchgear and cable systems



Engineering Consultancy Services

ERA's Engineering Consultancy Services business provides strategic asset management services, condition assessment, design consultancy, fitness-for-service evaluation and forensic engineering support for large capital assets, systems and sub systems. Our capabilities include:

Condition Assessment

Our condition assessment services cover static mechanical, rotating and electrical assets, including fitness-for-purpose evaluations, determination of remaining life and run, repair or replace guidance to owners and operators.

Power Systems

High quality power systems expertise for designers, owners and users of electrical supplies. Specialists in power quality, power system analysis, protection, design, supply disturbances and renewable energy systems.

ERACS Power Systems Analysis Software

Comprehensive and easy to use software for power system design and analysis, covering loadflow, fault calculations, IEC909, harmonic impedance and injection, protection coordination and transient stability.

Failure Investigations and Expert Witness

Investigation of equipment failures and provision of expert witness services. Specialists in electrical and mechanical engineering, metallurgy, materials, human factors, safety and reliability.

Materials and Design Consultancy

Our materials consultancy expertise includes, failure analysis, insulation and dielectric performance, cables and current ratings, wind power and geosynthetics.

Low Voltage Electrical Product Testing

Fuse, switchgear and protective devices testing and certification (eg. ASTA, BSI) within a UKAS accredited laboratory.

For further information please contact:

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