

ERA
TECHNOLOGY

Electrical Power Resilience
Consultancy Services



ERA Technology electrical power resilience services ensure that an organisation's electrical power supply arrangements are resilient to disturbances and will continue to meet operational requirements.

Industry and commerce is reliant upon the availability and integrity of business critical electrical and electronic equipment: whether for communications, finance, production or even life support systems.

Public electrical power supplies by their very nature are subject to a wide range of faults such as waveform corruption and partial or total failure. The severity and frequency of these disturbances will depend upon the characteristics of the local electrical supply and the susceptibility of connected equipment. Equally the availability of standby and conditional power supplies can be compromised by poor design, lack of compatibility with the load, load growth, power quality and many other factors.



For these reasons, business that rely on critical process or equipment should take measures to verify resilience through design and in-service audits. ERA Technology power systems services are based on many years of in-depth electrical engineering experience and offer organisations assistance with resilience concerns from initial design specifications through to routine inspections or reviews.



A typical ERA resilience review covers all aspects of the electrical power system including:

- Generator sets
- Fuel systems
- UPS
- Transformers
- Batteries
- Switchgear
- Protection devices
- Distribution systems
- HVAC systems
- Load characterisation
- Harmonic surveys
- Systems design and specification
- Witness testing
- Commissioning
- System health checks
- Earthing practices
- Failure analyses

Benefits

The benefits of an electrical power system resilience review far out-weighs the costs, yet some organisations still do not recognise their vulnerability to electrical power system failure until after the event.

An ERA review will identify those issues that need further consideration, including instances where systems are unnecessarily complex or badly designed, and provide recommendations based on best industry practice to maximise power system resilience.

Impartiality

One of the major strengths of ERA Technology is its independence. This provides the assurance of a comprehensive service to clients that is impartial and confidentially delivered.

ERA Technology Ltd

Since its foundation in 1920, ERA has evolved from its roots as a research association to become a centre of excellence in engineering technology with a strong brand and reputation, sitting at the forefront of specialist asset integrity service provision.

ERA is committed to delivering professional services to our customers across all business sectors, assisting them in reducing technical and commercial risk, improving the operational performance of their assets and developing and enhancing the competitiveness of their products and systems.

ERA Offers the Following Services:

AccessERA

(Publications, Training Courses, Newsletters & Information Services)

EMC and Radiocomms

(EM Management, Measurement and Modelling)

Engineering Consultancy Services

(Condition Assessment, Power Systems Analysis, ERACS Software, LV Electrical Product Testing, Failure Analysis and Materials & Design Consultancy)

Reliability and Failure Analysis

(Forensic, Analytical and Environmental Compliance Services)

System Safety Engineering and Assurance

(ISA, Safety Management Consultancy, Safety Process Audits, Software Assurance, Product Safety Assessments and Standards Compliance, RAM Engineering and Assurance).

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