



Power Forensics™

Forensic Investigations to establish the causes of power asset failures and to prevent future failures

Comprehensive experience

EA Technology has been supplying confidential forensic investigation, failure analysis and incident investigation services for more than 40 years.

We cover every electrical power industry, in countries across the world, from EHV transmission and distribution to low voltage equipment, controls and components.

We test, check performance, strip down and analyse. Then we review, report and advise.

We work on failed and ageing equipment; we assess how assets are aging; and because we know how things fail, we can help assess new solutions too.

International services

- Experienced investigators with multi-disciplinary expertise
- On-site incident examination and assessment
- Proven investigation procedures
- Modern analytical techniques
- Expert and independent witness work
- Fast, confidential service
- Bespoke experimental investigations and assessments

Benefits to your business

EA Technology provides an independent and thorough assessment of the issues, with no manufacturer, operator or contractor bias.

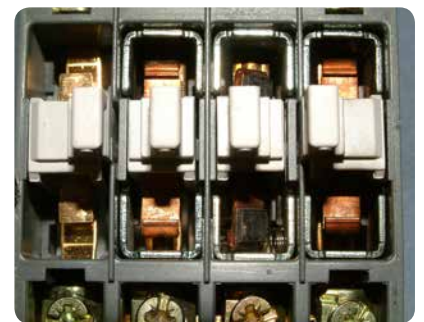
EA Technology provides independent technical assessments to assist with litigation, claims, and safety investigations.

By working with EA Technology, our clients can:

- **Prevent** future failures, interruption in supply and loss of production
- **Gather** expert evidence for issues of legal responsibility, litigation and claims
- **Improve** safety, operating procedures, maintenance practices, reliability and design
- **Inform** asset management decisions in areas including:
 - Reliability improvement
 - Risk analysis
 - Maintenance policies
 - Replacement and investment decisions



Explosion in 3.3kV circuit breaker



Failed Isolator

Worldwide experts in:

Incident investigation
Cause identification
Evidence collection
Failure prevention



We will help you answer these kinds of questions:

- What was the cause of failure?
- Is this failure a one-off or is this the start of a series of problems?
- How long should we leave this kind of equipment before we check it again?
- How should we prioritise replacement of this type of asset?
- How can we extend the life of this kind of asset?
- Was this incident caused by a manufacturing defect, installation issue, maintenance procedures, operating issues, overstress, the environment or something we haven't thought of?
- How can we avoid somebody getting injured if a similar issue arises again?
- How can it be shown that a new technology will perform correctly and safely when there are no standard tests for it?
- What is the best way to manage this asset?
- Are the maintenance procedures still appropriate?

Analytical facilities

Our main asset is our team of dedicated staff: widely experienced in power asset failures and with access to even greater expertise through the rest of EA Technology. We know how things fail and will find what evidence remains, even when an incident has caused significant destruction

We use our facilities to provide in-depth analysis, and these include:

- Scanning electron microscopy
- Optical microscopy
- Mechanical testing
- Materials analysis
- High voltage and high current testing

Identifying causes of failure

- Manufacturing or design defects
- Deliberate damage or sabotage
- Environmental factors
- Service or operational issues
- Operator error
- Lack of maintenance
- Poor installation

For further information call 0151 347 2313 or email sales@eatechnology.com

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