ASSET MAINTENANCE

HV Maintenance Asset Guide
RING MAIN UNITS

Understanding the condition of your Ring Main Units (RMUs) is essential to maintaining a safe and reliable power distribution network. Designed to control, isolate and distribute electrical power, RMUs play a vital role in maintaining supply continuity and supporting network reliability. This guide outlines maintenance requirements, recommended servicing intervals and the risks associated with deferred maintenance, helping asset owners maintain asset performance, safety and operational resilience.

RECOMMENDED MAINTENANCE TIMESCALES

Every 12 Months

- Check gas or air pressure changes
- Documentation updates

Every 1-5 Years

- Component wear assessments
- Torque checks on connections
- Cleaning of internal components
- Check for signs of overheating
- Moisture ingress checks
- Functional testing

As Required

- Asset replacement or upgrades
- Asset lifespan verification
- Protection testing

WHY DO RING MAIN UNITS REQUIRE MAINTENANCE?

- Maintain network reliability and operational performance throughout the asset lifecycle.
- Identify developing faults early and reduce the risk of unplanned outages.
- Support asset longevity and ensure equipment remains suitable for operational requirements.
- Support compliance with the Electricity at Work Regulations 1989 and relevant industry standards.

EAWR 1989 | HSG 230 | BS 6626

WHAT HAPPENS IF MAINTENANCE IS NEGLECTED?

- Increase the risk of minor issues developing into major failures.
- Reduce equipment performance and reliability, leading to outages and network disruption.
- Increase the risk of contact deterioration, overheating and arc flash incidents.
- Expose organisations to operational, legal and financial risks through inadequate asset performance.

WHAT MAINTENANCE IS REQUIRED?

- Device housing inspections and condition assessments
- Labelling checks and verification
- Grounding and isolation checks
- Gas or air pressure monitoring
- Cleaning of internal components
- Lubrication of contact surfaces
- Functional and operational testing
- Documentation and record reviews

HOW QUARTZELEC CAN HELP

- Deliver one-off asset assessments or planned maintenance programmes.
- Provide specialist HV inspection, testing, maintenance, refurbishment and replacement services.
- Help reduce downtime, extend asset life and maintain network reliability.

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