

# Rail EMC Infrastructure Solutions

## Rail EMC Infrastructure Considerations

Electromagnetic Compatibility (EMC) is an important part of any Infrastructure project; be it for Network Rail, London Underground, Crossrail, DLR or the myriad of light rail networks that are around the UK. Forthcoming UK projects requiring EMC infrastructure considerations include HS2 and Network Rail upgrades.

## Your Legal Obligations

It is a legal requirement via the EMC Directive that the railway and its equipment do not interfere with the correct operation of external radio communications and broadcast services.

## EMC Risk

Infrastructure Risk Management for EMC Covers both internal project interactions and external interference with existing, 3<sup>rd</sup> Party and legacy systems.

Eurofins York (formerly York EMC Services) can provide concept to completion EMC support for infrastructure projects including:

- Full electrification
- Re-signalling
- Platform extensions
- Depot upgrades

Our team of experienced consultants guide and advise you through the process:

- EMC Management and Strategy
- EMC Risk Assessment
- EMC Reviews
- EMC Testing (if required)
- Final EMC project documentation

We can create or assist with EMC Strategies, EMC Risk Management and subsequent EMC activities as and when required by the project.

Through our extensive experience in the Rail Industry we have found that the sooner EMC is considered in a project, the less the overall project cost for EMC is.

We have a particular specialisation in cable studies, in which the interference and electromagnetic coupling to victim cables running parallel to source cables is modelled and investigated. This is of specific interest to companies undertaking electrification projects.

EMF studies, for effects of fields on human health, can also be considered.



## Why Use Eurofins York?

- Extensive experience in the Rail Industry
- A reputation for being able to react quickly and effectively to solve problems in projects; particularly where the EMC is completed under tight time and budgetary constraints
- No problem too difficult

Eurofins York (formerly York EMC Services) is an organisation with over 25 years experience in providing: regulatory, compliance and bespoke consultancy; compliance testing; training and instrumentation. We operate from four sites across the UK including test laboratories accredited by the United Kingdom Accreditation Service (UKAS), near Bristol, Leeds and in Grangemouth, with our headquarters in York.

## Compliance Testing

Eurofins York is recognised as a leading provider of testing services in the UK for EMC, Radio Equipment, Electrical Safety and EMF; enabling products to readily and efficiently access the Global Market.

Our comprehensive suite of services and support ranges from pre-compliance checks through to fully UKAS accredited compliance, diagnostic and production testing. Eurofins York can therefore help you to ensure that your product meets its worldwide regulatory compliance requirements throughout its lifecycle.



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## Consultancy and Research

Eurofins York prides itself on providing cost effective solutions to meet our customers' needs in the disciplines of EMC, Electrical Safety, Radio Equipment and EMF. Our company's dynamic link to the Department of Electronics at the University of York sets us apart from other consultancy providers and test laboratories by keeping us at the forefront of developments in our field.

## Test Instrumentation

At Eurofins York we design, manufacture and distribute a range of unique noise and signal reference sources; used to verify test and measurement setups and to ensure the validity of EMC laboratory tests.

Available worldwide, our instruments are highly stable over time and their specified frequencies, ensuring that variations in your test environment are readily detected.

## York Training Academy

Eurofins York has an international reputation for providing Training Courses for individuals and organisations. Our training portfolio ranges from one day introductory courses to advanced in-depth workshops.

Available at our UK-wide locations, as bespoke in-house courses, or through on-demand online training modules to watch in your own time, we are able to accommodate you and your colleagues changing needs.

For more information visit: <http://www.yorkemc.com/services/training/> or email [training@yorkemc.com](mailto:training@yorkemc.com)

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