

EMC SERVICES FOR RAILWAY APPLICATION

TESTING SERVICES



Electromagnetic Compatibility (EMC) describes the ability of electronic and electrical systems or components to function satisfactorily within their electromagnetic environment. This means the electromagnetic disturbances produced by a system or component should be controlled to a certain limit and each system or component must have an adequate level of immunity to balance the disturbances in its environment.

EMC is an important aspect of testing to ensure that the system will operate safely and reliably. In railway's operational environment, there are a large number of critical, emissive and sensitive systems which are co-located in close proximity. This scenario results in one of the most difficult and challenging types of EMC environment in which a system must operate. The need to address and manage the EMC requirements throughout a life cycle is of paramount importance if the total system of EMC is to be achieved and maintained.

Achieving EMC for a wide range of rail equipment and a system is interpreted as reducing the likelihood of unacceptable interference occurring between constituent parts, rail installations, and its environment. This must be achieved at an acceptable cost, commensurate with demanding safety requirements. The accepted method of achieving this is to impose design, analysis and testing constraints on equipment and systems within the rigid framework of ongoing EMC management and quality control procedures.

The essential of EMC management is to meet technical, safety and legal requirement commencing from the project concept by implementing an EMC management plan and subsequently by EMC testing to verify that the requirement has been achieved. In order to achieve EMC for rail equipment, it is necessary to include EMC as a design parameter from the concept stage of a project. It is also necessary to control the design processes and project documentation which will support and kept in the Safety Case to cover EMC aspects of safety. This processes will enable the manufacturer to comply with appropriate EMC requirements.

We offer a full solution for EMC in Railway application to include the following services:

- EMC Management and Control Plan
- EMC Site Environment Survey
- EMC Hazard and Risk Assessment
- On-Site EMC Testing
- Laboratory EMC testing services
 - Railway Application
 - Information Technology Equipment
 - Industrial, Scientific, and Medical
 - Audio Video Equipment
 - Household Appliances
- Lighting Apparatus
- Automotive Components
- Generic Environment
- Military Products

WHY SIRIM QAS?

SIRIM QAS is an internationally recognized conformity assessment body with decades of experience in providing certification, inspection and testing services to both local and international customers.

We also gained accreditations from leading accreditation bodies such as the Department of Standards Malaysia (STANDARDS MALAYSIA) and under the National Laboratory Accreditation Scheme (SAMM)

based on the requirement of ISO/IEC 17025. These accreditations not only demonstrate the competence of our personnel and the credibility of our certification processes but also ensure the international recognition of our certificates.

Application Process:

- 1 Enquiries
- 2 Application Forms
- 3 Quotation
- 4 Payment
- 5 Testing Schedule
- 6 Submission of Sample
- 7 Testing
- 8 Issuance of Test Report
- 9 Return Sample



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YOUR NEXT STEP

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