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The EMC Directive The Major Changes at a Glance

- From July 2007, the existing EMC Directive 89/336/EEC was repealed by the new Directive 2004/108/EC
- There is a two year transition period until July 2009
- The Directive applies to equipment defined as:
 - Apparatus
 - Fixed Installations
- Single Route to Conformity for apparatus, self declaration
- No Technical Construction File (TCF) Route
- Competent Bodies become Notified Bodies
- Voluntary Notified Body involvement

Apparatus

- Technical Documentation must be produced
- EMC Assessment must be performed if Harmonised Standards are not applied in full

Fixed Installations

- Compliance with specific requirements
- Must be installed applying good engineering practices
- Documentation prepared and held by a Responsible Person

Solutions from TÜV SÜD

We will provide you with all the assistance you require in producing and assessing technical documentation required by the EMC Directive for either apparatus or fixed installations

We offer the following services:

- Notified Body Statement of Compliance
- Technical Documentation Compilation
- Technical Documentation Review
- Guidance in conducting an EMC Assessment
- Guidance in applying good EMC engineering practices in installations
- Technical training, briefings and support for suppliers of rail infrastructure

TÜV SÜD is one of the largest UK Notified Bodies (No.1895) designated under the EMC Directive 2004/108/EC. We review and assess client technical documentation with a view to issuing a Statement of Compliance in support of CE marking and have undertaken nearly 400 assessments since the first EMC Directive entered into force. We are an ISO 9001 registered company for consultancy and training.

TÜV SÜD is also a provider of extensive EMC and Environmental simulation testing services. These are accredited by UKAS for both laboratory and site testing.

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EMC Directive 2004/108/EC – Implications to the Rail Industry

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On July 2007, the previous Electromagnetic Compatibility (EMC) Directive 89/336/EEC was repealed by Directive 2004/108/EC. The basic principles of the original Directive have not been altered but there are significant changes which may affect infrastructure owners and operators and, suppliers of apparatus.

Implications for owners and operators of rail infrastructure

Many rail infrastructure projects (e.g. stations, depots, control centres etc) fall within the scope of the EMC Directive as a 'fixed installation'. There are now formal requirements for fixed installations such as appointing a responsible person to hold technical documentation. The retained documentation must demonstrate that specific requirements for fixed installations have been met by the application of good engineering practice.

The fixed installation requirements apply to new installations taken into service after 20th July 2007 and modifications made to existing installations after this date.

The implication is that infrastructure owners and operators and many of the supply chain tiers will have to demonstrate that EMC has been addressed and provide relevant documentation for retention by the responsible person.

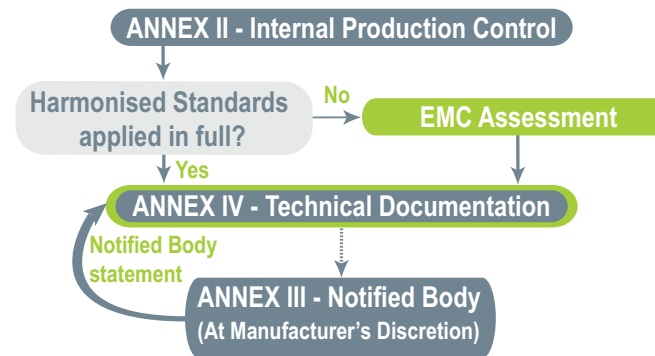
Infrastructure Documentation

EMC Documentation requirements for large infrastructure projects typically include:

- An EMC Assurance File
- An EMC Management Plan
- An EMC Control Plan
- EMC Test Plans and Method Statements
- Installation guidelines
- Hazard identification (HAZID) and risk analysis
- RF and power quality surveys
- Compliance statements for all 'apparatus' installed in the 'fixed installation'

Implications for suppliers of Apparatus

Conformity Assessment Procedure at a glance



Routes of Conformity for Apparatus (2004/108/EC)

Apparatus-Only one route to compliance

The new Directive defines Apparatus as any finished appliance or combination thereof made commercially available as a single functional unit. Mobile installations are also deemed to be apparatus in the new Directive. A mobile installation is defined as a combination of apparatus and, where applicable, other devices, intended to be moved and operated in a range of locations (e.g. Rolling Stock). There is only one route to compliance for apparatus, self declaration with internal production control. This requires the manufacturer to:

Perform an EMC Assessment

If the manufacturer has not applied Harmonised Standards in full, he must perform an EMC assessment on the basis of the relevant phenomena with a view to meeting the essential requirements.

Produce Technical Documentation

All manufacturers must produce Technical Documentation which provides evidence that the apparatus meets the essential requirements. It must cover the design and manufacture of the apparatus.

Provide Additional Information

Additional information concerning type, batch, and serial number for identification of the apparatus is also required.

At his discretion, the manufacturer may involve a Notified Body to assess all or part of his Technical Documentation.