

SECTION EIGHT - YORK EMC COMPETENT BODY CERTIFICATE



York EMC Services Ltd is a subsidiary company of the University of York and is a leading provider of testing, consultancy, training, research and electro magnetic compatibility test equipment.

The company was formed in 1995 after successfully offering EMC services for many years as part of York Electronics Centre, the commercial arm of the Department of Electronics. The headquarters is located on the University campus.

EMC is a significant area of concern within the railway industry.

Railways presents a complex electromagnetic environment made up of many systems including: signalling, traction, telecommunications and radio communications. Failures in compatibility between systems can introduce costly unreliability in services as well as leading to incidents that may compromise the safety of passengers and staff alike.

The railway industry strives to reduce the risk of such incidents occurring through processes of hazard identification and risk mitigation. Electromagnetic compatibility forms an essential part of these processes.

A further, legal, requirement is that the railway and its equipment do not interfere with the correct operation of external radiocommunications and broadcast services. The European EMC Directive (89/336/EEC) lays down the process for demonstrating this requirement.

York EMC Services Ltd is the well established market leader for the provision of EMC services to the railway industry. The company offers a range of consultancy, testing and training services specifically designed for the railway industry and has a solid track record of solving EMC problems and demonstrating EMC for major railway projects around the world.

Being the first EMC company in the UK to identify the EMC hazards to the railway industry, they have built up years of expertise and experience having successfully worked on major railway projects throughout the UK, in Europe and in the Far East. It is for this reason that the board of Hydrotech welcomed York EMC's certification that MPS meets the requirements of European EMC Directive 89/336/EEC.

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Competent Body Certificate

| | | | |
|--|--|--|-------------|
| Name and address of client: | | Equipment included in TCF | |
| Underground Solutions International Ltd., 2101 Asian House 1 Hennessy Road Hong Kong | | Manufacturer: Underground Solutions International Ltd. | |
| | | Type or model No: EPS/MPS System (prototype) | |
| | | Client Ref: 2152TCF1 dated 20 November 2006 | |
| Competent Body Statement From the information presented by Underground Solutions International Ltd. in Technical Construction File 2152TCF1, dated 20 November 2006 and the supporting documentation, it is our view that Underground Solutions International Ltd. have reasonably demonstrated that the 'as built' EPS/MPS System (prototype), build state as at 21 September 2006, meets the protection requirements Article 4 of the EMC Directive 89/336/EEC when used in a railway environment as defined in the EN50121-X series of standards. Reference should be made to the Competent Body if significant changes, likely to affect the EMC performance, are made to the system during production and use and also for subsequent installations. | | | |
| Issued by: | | York EMC Services Ltd., University of York, Heslington, York, YO10 5DD, UK. | |
| Certificate number: | | 2285CBC1 | Page 1 of 1 |
| Date of issue | | 09 January 2007 | |
| Prepared by  Graham Whyte, HND | | Approved by  Chris Marshman, BEng, MPhil, CEng, MIET, MIEEE, MIOD | |

York EMC Services
A DTI appointed Competent Body

VAT Reg No. GB 647 2055 41
 Company Reg No. 3075474
 York EMC Services is a Company limited by guarantee and not having a share capital.

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