Paul Greene
Building and Services Manager for York Minster

As one of the largest cathedral’s north of the Alps and one of the top visitor attractions in York having over 570 thousand visitors in 2013 and the suggestion that the fire of 1984 in the South Transept was caused by a lightning strike, **Lightning Protection for York Minster has to be of the upmost importance.**

[click here for more information about the fire](https://www.yorkminster.org/fires)

So I contacted DEHN (UK) Ltd who I knew as a leader in the market for Lightning and Surge Protection equipment. Sean Passant, East Midlands and Northern UK Business Manager for DEHN visited the Minster. Sean then informed us that DEHN could provide a free in-house one day seminar to discuss the importance of BSEN 62305.

Sean’s presentation was clear and informative and took us through the general principles and risk management associated with lightning strikes, the physical damage and life hazards involved. He also explained the need for protection to the electrical and electronic systems inside The Minster and completed the day with a walk around site reiterating the knowledge gained within our seminar session.

**The guidance provided by DEHN (UK) Ltd has given our electricians additional knowledge and confidence on the Lightning Protection for York Minster.**

For more information about York Minster please click here [https://www.yorkminster.org](https://www.yorkminster.org)
DEHNseminars
We offer a one day essential seminar for anyone involved in Surge & Lightning Protection.

Overview
A series of essential one day seminars for anyone involved in Surge & Lightning Protection, giving a clear, concise understanding of the requirements of the new standards and how to apply them.

These seminars are designed to help you and your company come to terms with both practical and theoretical implementations of BSEN 62305 and to take the installer and designer through the process of product selection and installation in accordance with the requirements of BS 7671

New version (V3) of DEHNsupport Toolbox software released
Lightning protection experts DEHN have released the latest version of their DEHNsupport Toolbox software. The updated DEHN Risk Tool module allows easier and quicker risk analysis and selection of the necessary protection measures. All existing users of the DEHNsupport Toolbox software can obtain the new version free of charge by updating within the program.

"Are your Risk assessments up to date?"
With the recent withdrawal of BS EN 62305-2:2006 on 31st January 2014, the latest version of the DEHNsupport Toolbox software now fully integrates with the current release of BS EN 62305-2:2012 ensuring your Risk assessments are up to date and in line with the latest version of the standard.

Auxiliary tools such as an integrated questionnaire and a printout for documenting the results were also redesigned and updated to current user needs.

Important changes in the new DEHNsupport Toolbox V3
- Integration of BS EN62305-2:2012 and IEC / EN updates
- Improved graphics and structure of the data entry
- Programme 1: BSEN 62305
  - Tuesday 31st March 2015 – Glasgow
  - Tuesday 28th April 2015 – York
  - Tuesday 19th May 2015 - Exeter
- Programme 2: BS 7671
  - Tuesday 3rd March 2015 – Gloucester
  - Tuesday 12th May 2015 – Cambridge

Please contact Claire Allsop on 01484 859111 for more information or alternatively click here to be redirected to our online seminar information sheet.

- Free upgrade for all existing users of the DEHNsupport Toolbox
- Integration of a new questionnaire
- Improved graphics for the calculated collection areas of buildings
- NEW: Assessment of systems in hazardous areas – IEC versions
- Simplified use of the lightning protection zone concept in calculations

The DEHNsupport Toolbox software has been available since 2007 and provides clear and practical support to planners, lightning protection companies and consultants making it considerably easier to professionally implement a comprehensive lightning protection system. The Toolbox includes different software modules which facilitate planning of lightning protection systems, ranging from risk management to the calculation of the length of air-termination rods, separation distances and the length of earth electrodes.

The new version is available to all existing users of the DEHNsupport Toolbox software at no charge. More detailed information on the software and a free demo version can be found at www.dehn.co.uk

New users can purchase the full DEHNsupport toolbox with a two user license from £170 + VAT.

PLEASE CLICK ON THE LINKS BELOW FOR MORE INFORMATION ON LIGHTNING NEWS
Lightning – Fascinating to watch, but dangerous
Lightning news
When lightning strikes PDF brochure
Lightning and Surge protection for Photovoltaic (PV) systems.

Due to their exposed installation sites and large collection areas, Photovoltaic (PV) installations are at a high risk of damage due to both direct and indirect lightning strikes. Since the PV system is connected directly to the building electrical system, the subsequent damage and disruption from these surges can cause serious damage to PV installations, expensive inverters and the building electrical system. Damage is not only limited to potentially high repair costs but also loss of service and important revenue for Solar Power plants.

Protection for rooftop PV systems.

Caution must be taken when installing PV systems and also plant equipment onto buildings that already have an existing external Lightning Protection System in place.

On such buildings where an external Lightning Protection System has already been installed to BSEN 62305, care must be taken to ensure that the retro fit installation of any PV / plant equipment does not render the existing Lightning Protection System non-compliant.

A PV system installed above the protective zone offered by the existing Lightning Protection System may now be at risk of receiving a direct lightning strike. Not only could this make the existing Lightning Protection System non-compliant it could also provide a path for lightning currents to enter the building and endanger life.

In order to avoid this, steps should be taken to ensure that the PV system is incorporated into the protective zone of the existing air termination system and protected against direct lightning strikes. Additionally, the correct surge and lightning equipotential bonding SPD’s should be installed where required on incoming services.

Co-ordination between PV designers, installers and lightning protection specialists is essential to ensure the continued integrity of the Lightning Protection System.

Buildings with external lightning protection and insufficient separation distance.

If the separation distance cannot be maintained, for example in the case of a metal roof or when the PV panels are bonded to the Lightning Protection System then lightning equipotential bonding must be carried out using Type 1 SPD’s due to the risk of a flashover bringing lightning currents into the building.

The DC and AC electrical incoming services into the building must now be bonded with Type 1 SPD’s such as the RED/Line DEHNshield or DEHNventil for AC supplies and the DEHNlimit or DEHNcombo for DC supplies.

DEHN have extensive experience in the design and development of Lightning Protection solutions for PV systems with a wide range of dedicated products aimed specifically at protecting PV installations. For more information, a dedicated brochure (DS109) for protecting Photovoltaic systems is available. Please contact DEHN (UK) Ltd for more information.
Fixed Earthing Terminals

A range of Fixed Earthing Terminals is available from DEHN UK that allows equipotential bonding to be easily carried out to meet the requirements of BSEN62305 and BS7671 17th edition sections 444.

The fixed earthing terminals can be connected directly to the equipotential bonding network and down conductor system within the structure prior to the concrete being poured. The terminals are manufactured from high quality V4A Stainless Steel to provide a corrosion free connection to the earth-termination system for protective equipotential bonding, functional equipotential bonding or bonding of the down conductor.

They comprises of a flat earth plate complete with a threaded bush with an insulated protective disc which will be the only visible sign that it is installed in the walls of the installation.

Incorporating fixed earth terminals at the design stage of the building concept can future proof the building and give greater flexibility for equipotential bonding connections to be effortlessly carried out in the future to the fixed earth terminals.

Several versions are available including a watertight wall bushing version for earthing of white tank systems.

Please click here for more information on our fixed earthing terminals

NEW DEHNguard® SE H LI Type 2 Surge arrester with Lifetime Indication (LI)

The new range of surge arresters from DEHN incorporate an integrated early warning system based on Lifetime Indication. They are ideally suited for protection of installations which must be permanently available, such as offshore wind turbines, power stations, data centres etc.

The DEHNguard® SE H LI type 2 surge arrester with Lifetime Indication protects installations with high availability requirements. The three step indication shows at an early stage whether protection modules have to be replaced and acts as a pre-failure warning. The repeatedly used, but still functional arrester can be quickly identified and changed without prolonged interruption of the protective circuit.

- Three-step indication “green / red / yellow”
- SPD can be used without de-rating until it is replaced (indication “yellow”)
- SPD can be integrated in condition monitoring systems
- Preventive maintenance concepts can easily be implemented
- High discharge capacity: I_max up to 65 kA (8/20 μs)
- Types from 75 to 1000 V
- Single-pole version with 1.5 modules

Please click here for more information on our new DEHNguard