



Document Control

Rev	Date	By	Comments
A	Jun'16	L. Davies	Technical review update
B	Dec17	UoL	Sign off for release
C	Apr'19	L. Davies	Technical review update
D	Mar'20	J. Thrupp	March 2020 Issue

Design Guidance

1. The use of ESE early streamer emission type system is the University of Leicester's preferred method of protection for all new and existing developments. The principle use of such system has been agreed with the building insurers, however, a detailed technical submission of the final proposals must be presented to the University estates team to ensure final agreement is sought prior to installation.
2. The lightning protection specialist shall allow within their tender for 12 months maintenance and re-test to ensure system performance is maintained at the end of the 12 months defects liability period. Ongoing maintenance thereafter shall be costed and submitted as part of the tender submission. Specialists not able to offer this facility will not be considered.
3. Surge protection must be provided to all developments that have lightning protection systems and shall be appropriately selected to suit the design. This shall also include surge protection of telecomms and other external utility networks
4. All ESE systems must be provided with a pulse/ strike counter and shall have a minimum of 2No downtape conductors
5. Consideration must be given to providing roof top bonding to all plant and structural elements to ensure that cross bonding with the lightning protection system is provided. This shall include but not be limited to the following:
 - Exposed roof top plant
 - Cladding systems
 - PV arrays
 - Handrails
 - Plant support structures
 - Rooflights
6. Alterations to existing systems which were designed and installed to the British Standard (Traditional System), must remain in accordance with the relevant British Standard they were originally installed too.

ES07**Lightning Protection**
**UNIVERSITY OF
LEICESTER**

Design Components

Item	Manufacturer	Comments
Surge protection	DEHM Omega Red group	Transient over voltage and lightning current surge protection to comply with BS7671, BS EN 62305 & BS EN 61643.

Framework Contractors

Service	Specialist	Address & Contact Details
Lightning Protection	Churchill Specialist Contracting Horizon Nimbus Omega Red group Sentinel	<p>Churchill Specialist Contracting Tel: 0115 986 2415 Email: enquiries@churchillsc.co.uk</p> <p>Horizon Tel: 0115 965 7400 Email: sales@horizonsc.co.uk</p> <p>Nimbus Lightning Protection Tel: 0845 006 3134 Email: enquiries@nimbus-lightning.co.uk</p> <p>Omega Red Group Limited Tel: 0115 877 2222 Email: enquiries@omegaredgroup.com</p> <p>Sentinel Lightning Protection and Earthing Ltd. Tel: 0115 961 0520 Email: enquiries@lightning-conductors.co.uk</p>