<table>
<thead>
<tr>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Welcome</td>
</tr>
<tr>
<td>2. About Cuttings</td>
</tr>
<tr>
<td>3. Service Offering</td>
</tr>
<tr>
<td>4. Lightning Protection</td>
</tr>
<tr>
<td>5. Earthing Services</td>
</tr>
<tr>
<td>6. Surge Protection</td>
</tr>
<tr>
<td>7. Specialist Protection</td>
</tr>
<tr>
<td>8. Support Services</td>
</tr>
<tr>
<td>9. Previous Experience</td>
</tr>
</tbody>
</table>
Welcome

Since 1879 we have been at the forefront of Lightning Protection and Earthing Services for the Construction and Facilities Management industries.

From our premises in London we are able to provide a national service for the design, installation and maintenance of Lightning Protection & Earthing Safety Systems.

We have accredited designers, trained and qualified engineers and a reputation for service.
History of Cuttings

From humble beginnings as steeplejacks, we have grown to be one of the most respected companies in our field.

Whilst some of the core services of the company have changed to suit the requirement of modern construction, the core values have not. Good service remains at the front of what we do.

In 1946 we were one of the founder members of our trade association, now known as ATLAS, and continue to serve at the highest levels.

Cuttings provide the highest calibre of service to ensure that your buildings are fully protected in the advent of a lightning strike.
About Cuttings

At Cuttings, we believe that our strengths are built on the skills and professionalism of the people who work for us. Our apprentices are trained to industry standards training scheme which provides on-the-job-training leading to the nationally recognised qualification NVQ3.

We employ a professional team of contract managers, project engineers, site supervisors, all accredited to the Construction Skills Certification Scheme – an industry wide certification scheme that confirms the levels of competence of properly skilled craftspeople.

We pride ourselves on the quality of our installations, and we inspect all of these prior to handover as part of our ISO 9001 accreditation.

We are also members of the Association of Technical Lightning & Access Specialists (ATLAS) which aims to increase safety, promote training and develop a quality business environment for our specialist industry. We are also members of the Steeplejack and Lightning Protection Training Group (SLPTG).
Service Offering

Consultancy, design, installation and maintenance for Lightning Protection and Earthing Systems.

Our 130+ years of experience gives us the knowledge to assist on a vast range of projects, including: Commercial, residential, retail, industrial, rail, power networks, renewable energy.

All of our Lightning Protection Systems are to the British Standard for Protection Against Lightning (BS EN 62305) and Earthing solutions are to the British Standard for Earthing (BS 7430).

Our company systems are Quality Assured to ISO 9001, and we are founder members of our national trade association ATLAS (Association of Technical Lightning & Access Specialists). Contact us for guidance and advice you can rely on.

<table>
<thead>
<tr>
<th>Service Offering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lightning Protection</td>
</tr>
<tr>
<td>Earthing Services</td>
</tr>
<tr>
<td>Surge Protection</td>
</tr>
<tr>
<td>Specialist Protection</td>
</tr>
</tbody>
</table>
“We will always use Cuttings to do our Lightning Protection. They have serviced us very well and we never consider using any other contractor. Very easy to deal with.”

Ed Wheeler – Wheeler Electrical Ltd
Lightning Protection

Protecting your building and its occupants.

The concept of Lightning Protection has been around for a long time, but so have we and we understand the complex nature of protection to the current British Standard BS EN 62305.

We’re able to evaluate the need for protection by Risk Assessment undertaken by designers accredited by ATLAS who would then proceed to create a design to sympathetically blend with your building.

Our Contracts department organise a team of trained and highly experienced installers who would take care of the on-site operations. All operatives are CSCS card holders and all fitters are NVQ2 or NVQ3 skilled tradespersons.

We take the safety of our employees very seriously, and each working crew includes an SSSTS (Site Supervisors Safety Training Scheme) qualified engineer. They in turn report to our Contracts department and to our SMSTS (Site Managers Safety Training Scheme) qualified Project Managers.

Annual maintenance should be undertaken and our dedicated team will take care of this for you. Our maintenance engineers all hold NVQ3 Test & Inspection qualifications.
Electrical Safety Earthing is essential to customers in the power supply industry.

The requirement for safety in terms of earthing is given in the following:
- Electricity Supply Regulations 1988
- Health and Safety at Work Act 1974
- Construction Design & Management (CDM) Regulations 2007
- Electricity at Work Regulations 1989
- BS 7430:2011 Code of practice for protective earthing of electrical installations

An effective Earthing design and installation can provide the safe environment required for your personnel.

Cuttings services include Soil Resistivity Surveys, carried out to determine site specific earthing requirements, the design of site specific earthing systems based on known local soil resistivity or the results of a Survey and the installation of earthing systems for:
- Standby Generators
- LV and HV supply systems
- Technical Earthing for equipment sensitive to fault currents
- Transformers
- Feeder Pillars
- Telecommunications Systems
- Wind Farms
- Deep drilled boreholes with conductive aggregates.
- Rail and tram earthing.
“Cuttings have always provided an exemplary service and we would continue to use them whenever possible.”

Luke Royce
W. Portsmouth & Co Ltd
“I have been using Cuttings for nearly 20 years now; they have always been professional and committed to delivering what I need.”

Peter James
Crown House Technologies Ltd
Surge Protection

Surge Protection is required where the protection of equipment is essential.

Surges are an often underestimated risk. These voltage pulses (transients) that only take a split second are caused by direct, nearby and remote lightning strikes or switching operations of a power utility.

As we become increasingly reliant on our electronic systems to assist us and safeguard us in our businesses, the need for adequate protection of these systems increases too.

Surges caused by direct lightning current can be catastrophic and can pose an immediate risk to human life by either equipment failure or even by fire. Those caused by the secondary effects of lightning (known as induced over-voltages), or by switching transients, are more common and can often go relatively unnoticed – until the connected equipment degrades and fails.

A co-ordinated set of surge protection devices can help safeguard both personnel and equipment.
Specialist Protection

Specialist Protection for customers with hazardous goods or sensitive equipment.

Where the Lightning Protection System is required to provide the highest degree of protection, for areas such as hazardous or explosive areas, it is possible to create protected zones using specialist materials into which lightning simply cannot get.

These protected zones may be formed by a series of tall masts, by individual poles, or by suspended conductors forming a catenary system. As accredited designers and installers of the Dehn specialist systems, we are able to offer bespoke solutions.

Examples would include Ministry of Defence installations, bio-energy plants and gas and petroleum fields.
“We would contact Cuttings over any other company. We receive prompt and professional advice in all aspects, and Cuttings will be our first port of call for the future”

Wayne Alsop
Waterstone Design
Support Services

Consultancy, design, installation and maintenance for Lightning Protection and Earthing Systems.

With over 130 years’ experience in Lightning Protection and Earthing, and with a professional team of qualified engineers and accredited designers you will receive the service from Cuttings that you expect from a specialist.

Backed by ATLAS membership, with ISO9001 registration and membership of several Safety Schemes in Procurement (SSIP) bodies, you can rely on us.

Protecting people from the elements can take many forms of protection.
Consultancy

Cuttings work with you to find the best solution for your building. We feel that the most essential part of any project is the planning. This involves full assessment of the current building designs or structure and the relevant sections of British Standard BSEN62305. Would you like to learn more about this service? Give us a call and we will integrate with your project team.

Design

Integrating with your design team. Our designs integrate existing structures or building plans to design a fully comprehensive Lightning Protection System – whether this be Structural Protection, Surge Protection (electronic systems protection) or a fully coordinated system that combines both. We work with designers to maintain the overall effect of the project and our design team have received accreditation by our industry association A.T.L.A.S. – The Association of Technical Lightning & Access Specialists.

Installation

Our highly trained professional installers will make sure installation is completed to the highest and safest standard. Working from a detailed project specification R. C. Cutting draw on our trained onsite staff to work with the project team and/or the building staff. Risk Assessments and Method Statements are prepared and issued to the operatives as part of their site specific pre-commencement briefings.

Maintenance

We provide ongoing support for companies or clients with Lightning Protection Systems. In accordance with the British Standards maintenance inspections should be carried out on an annual basis and R. C. Cutting will prepare a yearly inspection programme. This support can also offer advice and recommendations for upgrades to current standards where applicable.
Past Masters

Over 130 years and counting....

Since 1879 Cuttings have been providing specialist services. There’s very little that we haven’t seen and done before, so you should feel safe in handing us the responsibility for your project.
PROJECT
01
London 2012:
The Olympic Stadium

PROJECT
02
Mitsubishi Data Centre
Stevenage, Hertfordshire

PROJECT
03
MBDA Missile Systems
Various Locations

PROJECT
04
Royal Botanic Gardens, Kew
London & Wakehurst, Sussex
The eyes of the world were on this project.

Working to an absolute end date and to a rigid budget, the installation of Lightning Protection and Earthing Systems was completed ahead of time and on budget.

Our works at the Olympic Park also included Lightning Protection Systems to the Athletes Village, Aquatics Centre, Basketball Arena, Water Polo Arena, Energy Centres, Hockey Pitches and several other temporary sites in and around London.
The cloud has to live somewhere.

An intricate network of earthing conductors were required to provide a safe and static free environment for this very large installation. Floor pedestal bonding was undertaken to ensure that every single floor tile was provided with a reliable earthing connection, and dozens of interconnected earth electrodes provide the low resistance earth that the facility requires.

A Lightning Protection System was also provided to the building to ensure that all possible measures were in hand.
Following reviews by the client, Cuttings have been involved in the design and supply of surge protection devices for multiple buildings from Administration offices, Research and Development, Testing facilities and Explosive Storage.

Many buildings simply cannot risk dangerous sparking or equipment failure and so the client chose high quality Surge Protection Devices to protect their business assets.
A breath of fresh air.

The contrast of working at Kew Gardens compared to the frenzy of modern construction projects could not have been more acute. Our works were to assess the need for protection to all buildings, and to undertake the installations where necessary. At Kew we were principal contractor and undertook all activities in relation to our works, including all specialist access, builders work and surge protection installation.

With the gardens open to the public 7 days a week, our activities had to be carefully planned to ensure the safety of the public and to minimise disruption to our clients business.