

Includes a

**FREE COPY**

of the book **Protection against lightning – A UK guide to the practical application of BS EN 62305**

VALUED AT £75.00<sup>^</sup>

## 1 Day Conference

# Lightning Protection

20 May 2008 - Conference, 21 May 2008 - Workshop  
BSI Group Headquarters, London W4 4AL

Understanding and applying the changes from BS 6651 to the BS EN 62305 series – Specific to structures and their contents

*BS 6651:1999 Code of practice for protection of structures against lightning* is being withdrawn and replaced by the **BS EN 62305** series of standards on **Protection against Lightning** in August 2008, which cover the protection of

- Structures, their services and contents
- People within or adjacent to the structures

Are you fully aware of what the changes will mean for you and your organization's procedures? What changes do you need to make to your current practices?

**Do you know how to carry out the required risk assessment correctly?**

### This conference will:

- Introduce you to the Standard and its four different parts highlighting the changes
- Explain the impact and the changes you need to make in your working practices
- Give an explanation of the new approach to assessing risk.

The conference also provides a forum to network with peers and share problems and solutions.

### Who should attend?

All those responsible for the design, implementation and maintenance of lightning protection for buildings and other structures.

# Lightning Protection

Understanding and applying the changes from BS 6651 to the BS EN 62305 series  
– Specific to structures and their contents

## Conference Programme 20 May 2008

### Conference Timings

**Registration:** 09.30

**Conference begins:** 10.00

**Conference closes:** 16.30

*Please note, timings are provided for guidance only and may be subject to change.*

### Chair

**John Sherlock**

*UK Representative*

**IEC Technical Committee 81**

**(aspects of lightning)**

**Technical Committee TC81X**

**(aspects of lightning)**

### Introduction to BS EN 62305 protection against lightning

#### Introduction to BS EN 62305

- Why is BS 6651 being withdrawn?
- Why and how was BS EN 62305 created?
- Structure and content outline of BS EN 62305
- UK application of the Standard
- Highlighting significant changes between BS 6651 and BS EN 62305
- When should BS EN 62305 be used, and by who?

**John Sherlock**

*UK Representative*

**IEC Technical Committee 81**

**(aspects of lightning)**

**Technical Committee TC81X**

**(aspects of lightning)**

### Understanding and applying BS EN 62305

BS EN 62305 consists of four papers, each of the following papers will:

- Guide you through the content of that part in detail
- Highlight the key points and interrelations between parts
- Identify the significant changes
- Suggest best practice for their real-life application
- As well as cover special aspects relating to each part

### Part 1: General principles – BS EN 62305-1

- Scope of Standard
- Sources and types of damage
- Loss and risk categories
- Protection measures
- Lightning protection levels and protection zones

**Rev Christopher Miles**

*Lightning Protection Consultant*

**Dioceses of Rochester and Canterbury**

### Part 2: Risk management – BS EN 62305-2

- Lightning Protection and the Health and Safety at Work etc Act
- The purpose of risk assessment
- What are the major changes?
- What extra information is needed?
- Who should carry out the assessment

**Peter Palles-Clark**

*Consultant, Specialist for Lightning Protection*

**(Anglican) Diocese of Chichester**

### Part 3: Physical damage to structures and life hazard – BS EN 62305-3 design and protection measures

- Air termination networks
  - Differences in mesh sizes and the various forms of providing protection
- Down conductors
  - New spacing requirements and methods of providing a down conductor system
- Earthing systems
  - Earth resistance and earth impedance of electrodes and electrode systems
  - Step and touch voltages

**Andy Malinski**

*Technical Manager*

**Omega Red Group Ltd**

**Huw Griffiths**

*Senior Lecturer*

**High Voltage Energy Systems Group, School of Engineering, Cardiff University**

### Part 4: Electrical and electronic systems within structures – BS EN 62305-4

- Lightning, surges and effects to electrical/electronic equipment
- The importance of BS EN 62305-4
- Lightning Protection Zone (LPZ) concept
- The LEMP Protection Measures System (LPMS)
- Protection application, inspection and maintenance

**Samad Khan**

*Product Manager*

**Furse, Thomas and Betts**

### Practical application guidance

#### Case study: Lightning induced voltage stopages on a gas production platform

- Case study background - disruption to 'protected' systems
- 'At risk' electronic systems are exposed systems
- Major findings
  - Screening failures
  - Exposed plant disruptions
- Recommendations
  - Using BS EN 62305-4 to protect electronic circuits

**Brian Burrows**

*Specialist, Protection of Electronic Systems and Petroleum Facilities*

**Brian Burrows Lightning Consultancy**

#### Application of BS EN 62305-2 on a typical case

- Description of the site
- How to collect the data
- Calculation of risk components
- How to reduce the risk under the tolerable level

**Alain Rousseau**

*Lightning Protection Specialist, Chairman of CENELEC surge protection device committee*

**SEFTIM**

#### Structures with risk of explosion. Special requirements.

**Richard Savage**

**Ministry of Defence**

## Post Conference Workshop 21 May 2008

### A practical guide to lightning risk management and assessment

#### Workshop Timings

**Registration:** 09.00

**Workshop begins:** 09.30

**Workshop closes:** 17:00

*Please note, timings are provided for guidance only and may be subject to change.*

A highly practical one-day workshop that will provide delegates with a detailed understanding of the risk management process. The workshop will aim, through practical explanation, guidance and case studies, to provide attendees with the knowledge to carry out the required risk assessment by covering the following areas:

- Review of BS EN 62305 method
  - The principles of the method
  - What are the main parameters?
  - How do I obtain the data?
  - What is fundamental to know?
  - Can I use the default values?
  - How can I know that the calculated result is the appropriate one?
- How to cooperate between the site owner/user and the lightning protection specialist
- Economics calculation: what to do with it
- How to cover specific cases such as explosive areas
- I fail to reduce the risk below the tolerable level, what should I do?
- **Addressing real-life lightning risk management issues**
  - **Case studies sourced from problems encountered by attendees in the field**

#### Alain Rousseau

*Lightning Protection Specialist,  
Chairman of CENELEC surge protection device committee*

SEFTIM

## Conference Speakers

**Chair: John Sherlock**  
IEC Technical Committee 81  
(aspects of lightning)

Technical Committee TC81X  
(aspects of lightning)

**Brian Burrows**  
Brian Burrows Lightning  
Consultancy

**Huw Griffiths**  
Cardiff University

**Samad Khan**  
Furse, Thomas and Betts

**Andy Malinski**  
Omega Red Group Ltd

**Rev Christopher Miles**  
Dioceses of Rochester and  
Canterbury

**Peter Palles-Clark**  
(Anglican) Diocese of Chichester

**Alain Rousseau**  
SEFTIM

**Richard Savage**  
Ministry of Defence

## Who should attend?

All those responsible for the design, implementation and maintenance of lightning protection for buildings and other structures, including:

- Engineering consultants
- Building contractors
- Electrical contractors
- Lightning protection experts/consultants
- Architects
- Owners or developers of structures requiring lightning protection
- Public sector/local authorities
- Health and Safety officers and consultants.

## About BSI Conferences & Training

BSI Conferences bring together key players to debate latest trends, regulations and issues with opportunities for delegates to take part in open discussions and debates led by panels of expert speakers.

With relevant and up-to-date information, presented in an accessible and appropriate manner, you will leave our events better equipped to face your professional challenges and responsibilities.

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**Sponsorship and Business Development Opportunities** are available at this event.

For further information **email** [conferences@bsigroup.com](mailto:conferences@bsigroup.com) or **call** 020 8996 7620.

To purchase the BS EN 62305 series go to

[www.bsigroup.com/lightning](http://www.bsigroup.com/lightning)

or call **020 8996 9001**



# Lightning Protection

20 and 21 May 2008 - London

**FIVE EASY WAYS  
TO BOOK**

## DELEGATE DETAILS

<b>1</b> Mr/Ms/Miss/Mrs/Dr/Other	First Name(s)	
Surname		
Job Title	Organization	
Address		
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Email		
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Surname		
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BSI Subscribing Membership No. (if applicable)		

## PRICING

Pricing Please <input checked="" type="checkbox"/> your selection(s)	1 Day Conference <sup>^</sup> 20 May 2008	Post Conference 1 Day Workshop 21 May 2008
Standard Rate (Non Member)	<input type="checkbox"/> £299.00 + VAT (£351.32)	<input type="checkbox"/> £245.00 + VAT (£287.87)
Standard Rate (Member*)	<input type="checkbox"/> £269.10 + VAT (£316.19)	<input type="checkbox"/> £220.50 + VAT (£258.50)
Public Sector/Charity Rate (Non Member)	<input type="checkbox"/> £250.00 + VAT (£293.75)	<input type="checkbox"/> £199.00 + VAT (£233.82)
Public Sector/Charity Rate (Member*)	<input type="checkbox"/> £225.00 + VAT (£264.37)	<input type="checkbox"/> £179.10 + VAT (£210.44)

Please note: prices online are inclusive of VAT.

### Discounts:

\* Members discount applies to members on provision of appropriate membership number or booking code on conference and/or workshop bookings.

<sup>^</sup> Conference registration fee includes one complimentary hard copy of the book Protection against lightning – A UK guide to the practical application of BS EN 62305, valued at £75. This will be distributed at the conference. Limited to one per registration. No cash alternative.

If you have 5 or more delegates, please contact +44 (0)20 8996 7409 about group packages.

**Total Payable: £**

## PAYMENT DETAILS

Cheque: Please make payable to **BSI**

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Expiry Date     Cardholder Name

Please debit my/our Credit Card to the sum of £

Signature  Date

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03/08

 **Online:**  
[www.bsigroup.com/lightningprotection](http://www.bsigroup.com/lightningprotection)

 **Telephone:**  
**+44 (0)20 8996 9001**

 **Fax:**  
**+44 (0)20 8996 7001**

 **Mail:**  
Send your completed form to:  
BSI British Standards  
389 Chiswick High Road  
London  
W4 4AL  
Please retain a copy for your records.

 **Email:**  
[orders@bsigroup.com](mailto:orders@bsigroup.com)

## Conference Information

Full joining instructions will be sent upon receipt and confirmation of your booking. If you have not received your confirmed instructions within 3 days, please call Customer Services on +44 (0)20 8996 9001 to confirm your booking has been placed.

## Terms and Conditions: Transfer and Cancellation

All cancellations and transfer requests must be made in writing to the Head of Delegate Administration in Customer Services, either by email, fax or letter, contact details above. This will be acknowledged in writing.

### Transfers

There is no charge for changing a delegate name providing the request is received no less than 20 working days before the start of the event. Any request received 19-0 working days before the start of the event will be subject to a transfer charge of 20% of the fee.

### Cancellation

There is no charge for cancellations received no less than 40 working days before the start of the event. Any cancellation received 39-16 working days before the start of the event will be subject to a cancellation charge of 25% of the fee. Any cancellation received 15-0 working days before the start of the event will be subject to a cancellation charge of 100% of the fee. If a delegate fails to attend the event, the full fee is payable.

Because networking with delegates from other companies add to the quality of our events, it may be necessary to cancel an event if the delegate numbers are too low. We reserve the right in our absolute discretion and without liability to cancel any event, in which case all monies will be refunded. If you are making travel or accommodation arrangements we recommend that you check the status of the event with our customer service department first. We reserve the right at any time and without prior notice to change the venue and/or speakers and/or programme from that described in the brochure. Prices are correct at time of print but may be subject to change. We accept no responsibility for the views expressed by the speakers or any other persons present at the event.

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