

# Practical & Financial Implications

AMD2 Update

- What's the financial impact?
- What does this mean operationally?
- What does this mean practically?
- Our approach?

## 443.4.1 - Transient overvoltages due to the effects of indirect lightning strokes



Protection against transient overvoltage's shall be provided unless the owner of the installation declares it is not required due to any loss or damage being tolerable and they accept the risk of damage to equipment and any consequential loss.

What does this mean?

Would you assume liability?

Protection against transient overvoltages shall be provided where the consequence...  
could result in..

- i) Serious injury to, or loss of, human life*
- ii) Failure of a safety service, as defined in Part 2*
- iii) Significant financial or data loss*

Arc fault detection devices (AFDD) conforming to BS EN 62606 shall be provided for single-phase AC final circuits supplying socket-outlets with a rated current not exceeding 32 A in:

- Higher Risk Residential Buildings (HRRB) (over 18 m or 6 storeys)
- Houses in Multiple Occupation (HMO)
- Purpose-built student accommodation
- Care homes

**For all other premises, the use of AFDDs conforming to BS EN 62606 is recommended for single-phase AC final circuits supplying socket-outlets not exceeding 32 A.**

## Type AC RCD's..

AC type RCD's shall only be used to serve fixed equipment, where it is known that the load current contains no DC components.

411.3.3 - Additional requirements for socket-outlets and for the supply of mobile equipment for use outdoors

- i) Socket-outlets with a current rating not exceeding 32A in locations where they are liable to be used by persons of capability or children.
- ii) Mobile equipment with a rated current not exceeding 32A for use outdoors.

What does this mean?

If additions or alterations are being made to existing final circuits or..

If sockets are liable to be used by persons of capability or children.

If sockets are likely to be used for mobile equipment outdoors.

Type A RCD's should be used

## Consumer Units..

Existing split load type or modular RCBO?

Practical space considerations for installation of Surge Protection

Futureproofing for forthcoming regulations around AFDD's



# Consumer Unit Types..

## Dual RCD



## RCBO Modular





Practically.. Surge protection is required..

Where smoke detection circuits are being upgraded, or added to.  
For example an upgrade to a LD3 or LD2 system.

Where new consumer units are being installed.

Time Considerations..

Void properties and planned works most effected.

Historic time in a void for an Electrician is 1 day.

Time allowing for new upgrades 2-2.5 days.

Smoke detection upgrade, Consumer Unit installation, Void test,  
Minor remedial works - All surface mounted trunking to be fitted  
with fire clips.

## Financial Implications..

Historical average cost of materials for a 10 way dual RCD consumer unit upgrade in round numbers is £110

Average cost of materials for a 10 way modular RCBO board with surge protection device, and 2 AFDD's.. Is £650!



Any Questions?