

Initial Verification

Purpose:

To ensure that the installation complies with the designers intention and has been constructed and tested in accordance with BS7671.

Reason:

To ensure all materials and equipment utilised are of the correct type and comply to all relevant BSEN standards.

To ensure that all parts of the fixed installation are selected and erected correctly (in line with BS7671).

No part of the fixed installation is visibly damaged or otherwise defective.

I&T must take place in order to confirm elements of the above.

Certificates:

Three forms are allowed for initial verification:

1. Multi signature Electrical Installation Certificate
2. Single signature electrical installation certificate
3. Minor electrical installation works certificate

Signatures are required for areas of Design, Construction and I&T

Minor elec inst works certs are used for 'minor works' that do not extend to a new circuit.

i.e. the addition of a socket outlet to an existing circuit.

the addition of a lighting point to an existing circuit etc.

Can also be used for the replacement of accessories and luminaries but not for the replacement of distribution boards or similar.

Required Information (See also Part 3 Chapter 31 BS7671)

- General Characteristics
- Maximum Demand per phase after application of diversity
- Number and type of live conductors
- Type of earthing arrangement
- Supply voltage, frequency and design current
- Ze and Pfc at origin
- Suitability for requirements including max demand.
- Type and rating of overcurrent protective device at the origin.

(these characteristics should also be available for uninterruptable power supply units (UPS) and generators where applicable.

Diagrams charts and tables should be made available indicating:

- Type and composition of circuits
- Method of protection against indirect contact
- Information for the identification of each device providing protection, isolation and switching and their location.
- Any circuit or equipment vulnerable to testing.

Scope

This should indicate the extent and any limitations

Frequency (see GN3 page 63)

The designer decides

The interval is noted on the EIC

Notice of the next date should be placed in a prominent position near to the origin of the installation.

Initial Inspection General Procedure (see detail GN3 p.19)

Where appropriate, inspection and testing should be carried out and recorded through the various stages of erection.

Connection of conductors

Identification of cables and conductors

Routing and selection of cables and conductors

Polarity

Connection of accessories and equipment

Selection and erection to minimise fire

Protection against both direct and indirect contact

Protection against direct contact

Protection against indirect contact

Prevention of mutual detrimental influence

Isolating and switching devices

Protective devices

Labelling of protective devices, switches etc.

Access to switchgear

Danger notices/diagrams etc. (see p.20 GN3)

Erection methods

Further detail behind the above inspection procedure is given between pages 19 & 32 of GN3.